TC-KA1ESA/KE500S

SERVICE MANUAL

US Model
TC-KA1ESA/KE500S

Canadian Model
TC-KA1ESA

AEP Model
UK Model
Australian Model
E Model
TC-KE500S

Photo : TC-KE500S

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol ◻◻ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	TCM-190VB14

SPECIFICATIONS

System

Recording system
4-track 2-channel stereo

Fast winding time (approx.)
90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.)
45 sec. (with Sony C-60 cassette)

Bias
AC bias

Heads
Erasing head × 1 (S&F head)
Recording head × 1 (SD head)
Playing head × 1 (SD head)

Motors
Capstan motor × 1 (DC servo motor)
Reel motor × 1 (DC motor)

Signal-to-noise ratio (at peak level, weighted, and with Dolby NR off)
Type I tape, Sony Type I (NORMAL): 57 dB
Type II tape, Sony Type II (HIGH): 59 dB
Type IV tape, Sony Type IV (METAL): 61 dB

S/N ratio improvement (approximate values)
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz
With Dolby S NR on: 10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion
0.4% (with Type I tape, Sony Type I (NORMAL): 160n Wb/m 315 Hz, 3rd H.D.)
1.5% (with Type IV tape, Sony Type IV (METAL): 250n Wb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)
Type I tape, Sony Type I (NORMAL):
20 - 17,000 Hz (±3 dB, IEC)
15 - 18,000 Hz (±6 dB)
Type II tape, Sony Type II (HIGH):
20 - 18,000 Hz (±3 dB, IEC)
15 - 19,000 Hz (±6 dB)
Type IV tape, Sony Type IV (METAL):
20 - 19,000 Hz (±3 dB, IEC)
20 - 16,000 Hz (±3 dB, –4dB recording)
15 - 21,000 Hz (±6 dB)

— Continued on page 2 —

STEREO CASSETTE DECK

SONY®

Wow and flutter

±0.085% W. Peak (IEC)
0.055% W. RMS (NAB)
±0.16% W. Peak (DIN)

Inputs

Line inputs (phono jacks)

Sensitivity: 0.16 V
Input impedance: 47 kilohms

Outputs

Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of 47 kilohms
Load impedance: Over 10 kilohms

Headphones (stereo phone jack)

Output level: 0.25 mW at a load impedance of 32 ohms

General

Power requirements

Where purchased	Power requirements
US, Canadian model :	120 V AC, 60 Hz
AEP, UK, German, Malaysia, Singapore model :	220 - 230 V AC, 50/60 Hz
Australian model :	240 V AC, 50 Hz
E model :	120, 220, or 240 V AC, 50/60 Hz adjustable with the voltage selector

Power consumption

21 W

Dimensions (approx.) (w/h/d)

430 × 120 × 310 mm (17 × 4 3/4 × 12 1/4 inches) incl. projecting parts and controls

Mass (approx.)

4.2 kg (9 lbs 5 oz)

Supplied accessories

Audio connecting cords (2)

Design and specifications are subject to change without notice.

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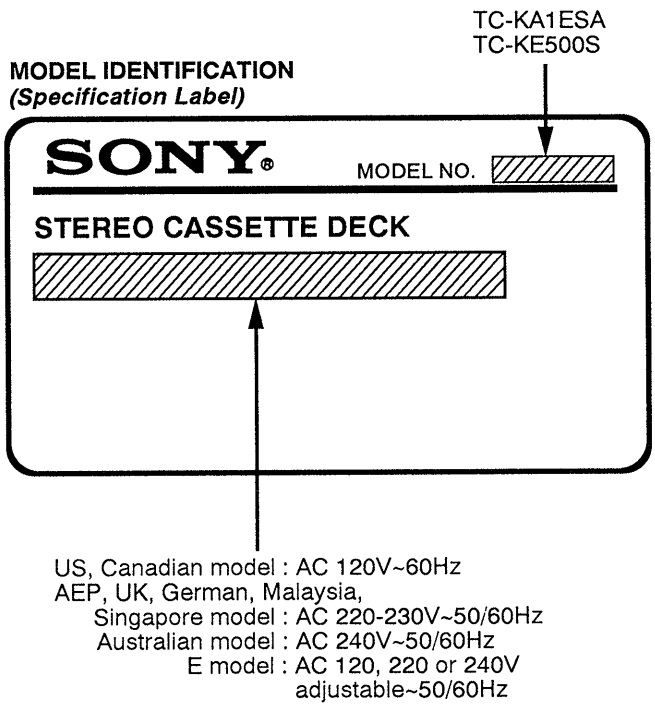


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

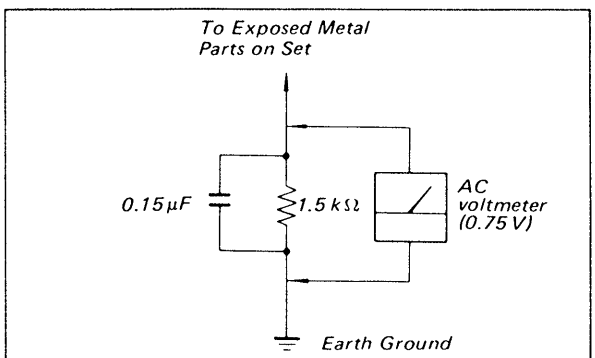
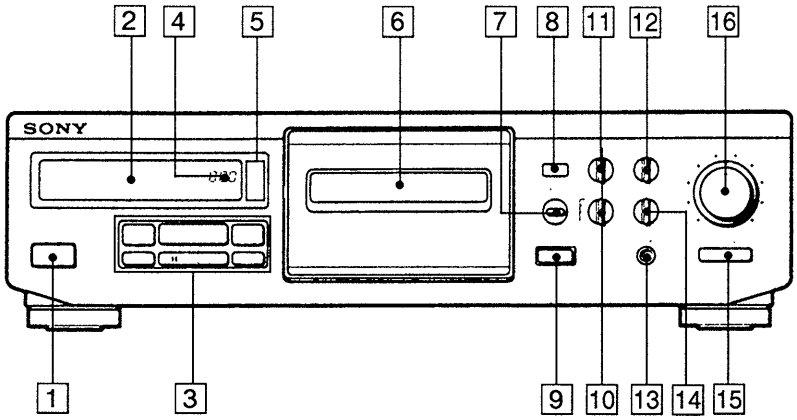


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

IDENTIFYING THE PARTS ON THE FRONT PANEL



1 POWER switch

2 Display panel

3 Tape operation buttons
- ◀◀ (rewind) (Multi − AMS**) button
- ▷ (play) button
- ▶▶ (fast − forward) (Multi − AMS**) button
- ■ (stop) button
- II PAUSE button
- O REC MUTE (record muting) button
- ● REC (record) button

4 Tape counter

5 Counter buttons
RESET button
MEMORY button

6 Cassette holder

7 CALIBRATION button

8 Remote control sensor

9 ⏏ (eject) button

10 DOLBY NR (noise reduction) button

11 BIAS control

12 REC (recording) LEVEL control for calibration

13 PHONES jack (stereo phone jack)

14 BALANCE control

15 MONITOR button

16 REC (recording) LEVEL control

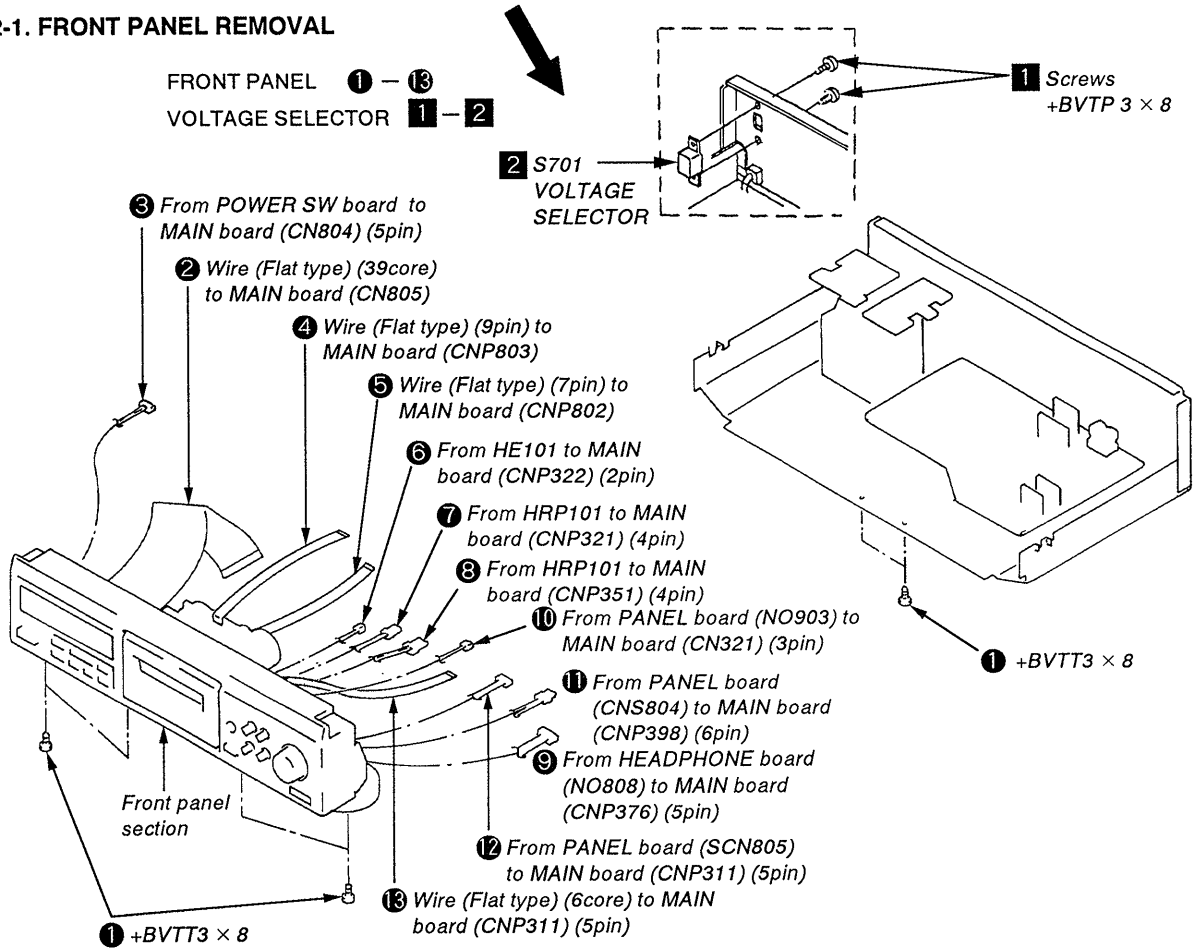
**AMS is an abbreviation for Automatic Music Sensor

SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

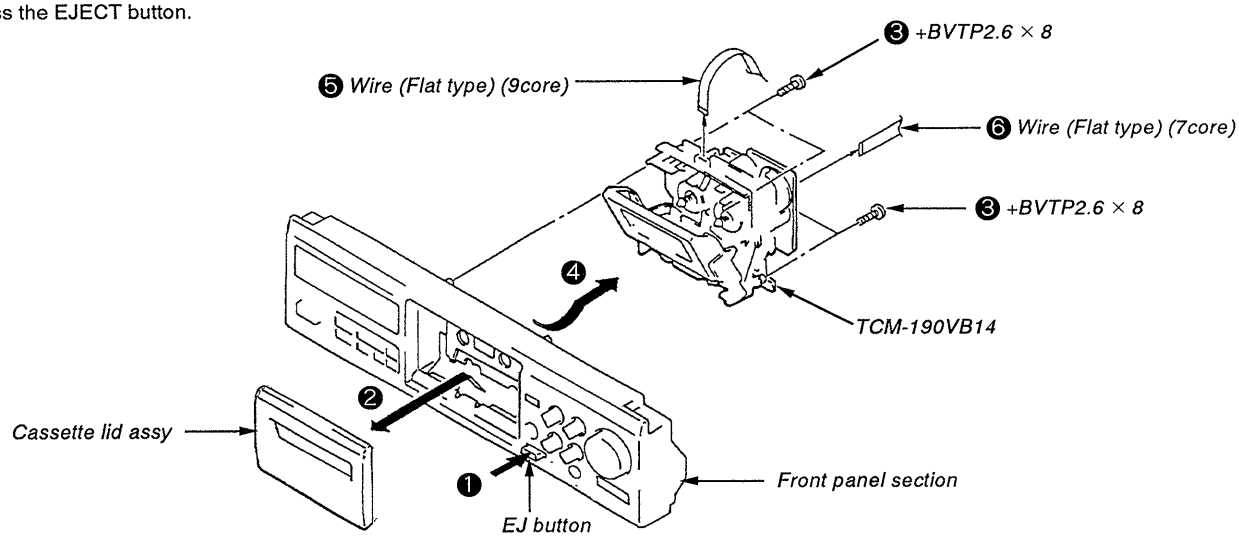
CASE
Unscrew the four case attachment screws M3 × 8 and remove the case.

2-1. FRONT PANEL REMOVAL

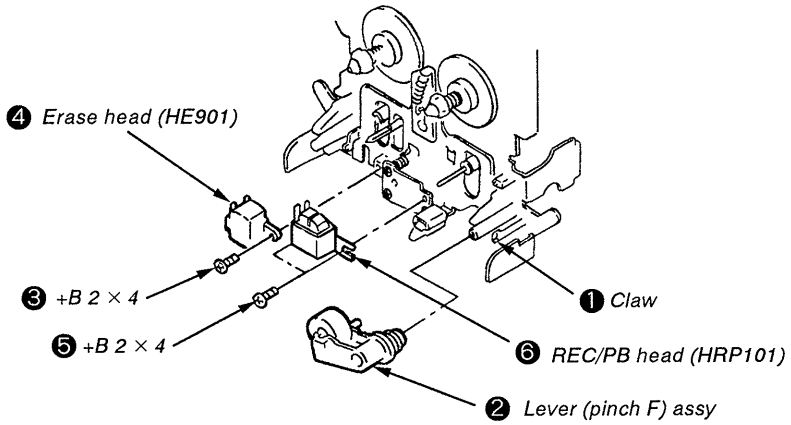

FRONT PANEL ❶ – ⓭
VOLTAGE SELECTOR 1 – 2
1 Screws +BVTP 3 × 8
2 S701 VOLTAGE SELECTOR
❸ From POWER SW board to MAIN board (CN804) (5pin)
❷ Wire (Flat type) (39core) to MAIN board (CN805)
❹ Wire (Flat type) (9pin) to MAIN board (CNP803)
❺ Wire (Flat type) (7pin) to MAIN board (CNP802)
❻ From HE101 to MAIN board (CNP322) (2pin)
❼ From HRP101 to MAIN board (CNP321) (4pin)
❽ From HRP101 to MAIN board (CNP351) (4pin)
❿ From PANEL board (NO903) to MAIN board (CN321) (3pin)
⓫ From PANEL board (CNS804) to MAIN board (CNP398) (6pin)
❾ From HEADPHONE board (NO808) to MAIN board (CNP376) (5pin)
⓬ From PANEL board (SCN805) to MAIN board (CNP311) (5pin)
⓭ Wire (Flat type) (6core) to MAIN board (CNP311) (5pin)
❶ +BVTT3 × 8
❶ +BVTT3 × 8
Front panel section

2-2. MECHANISM DECK

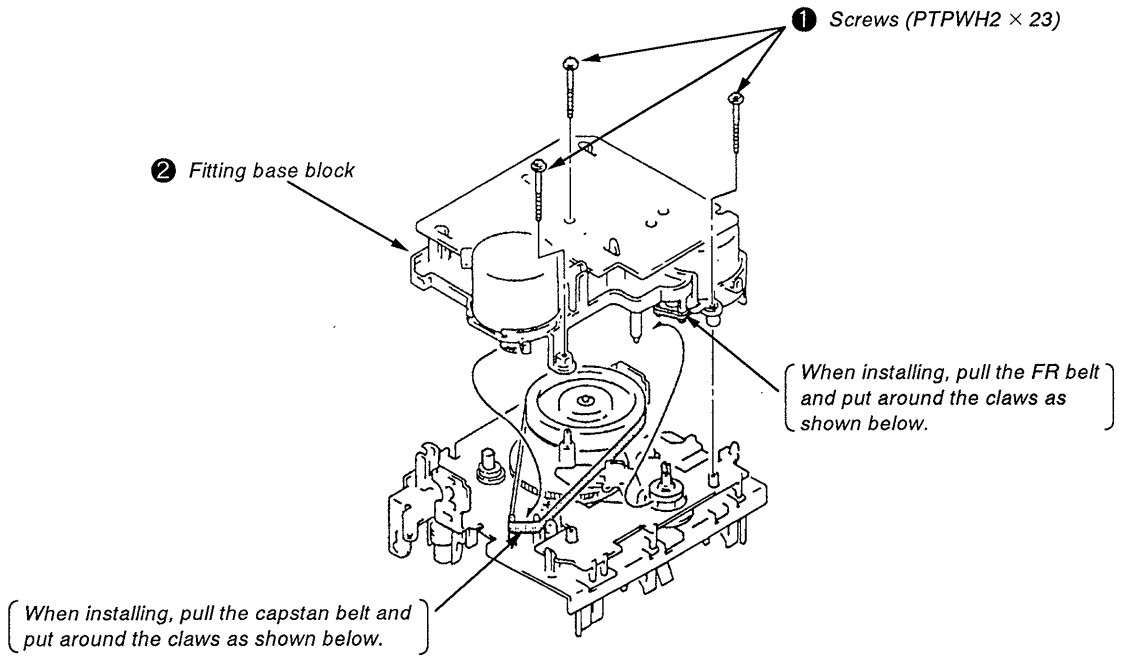
❶ Press the EJECT button.



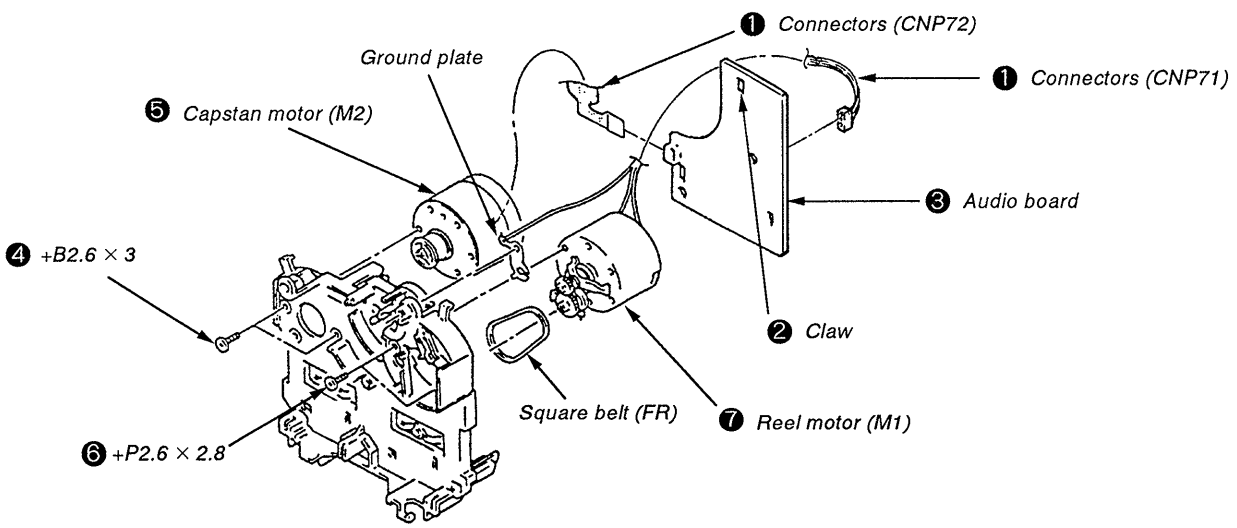
2-3. HEAD



2-4. FITTING BASE BLOCK


❶ Screws (PTPWH2 × 23)
❷ Fitting base block
When installing, pull the FR belt and put around the claws as shown below.
When installing, pull the capstan belt and put around the claws as shown below.

2-5. MOTOR



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback/erase head — pinch roller
   rubber belts — capstan
   idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

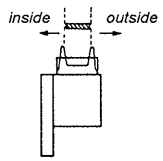
Torque Measurement

Mode	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g•cm (0.42 to 0.90oz•inch)
Forward back tension	CQ-102C	1 to 6g•cm (0.014 to 0.08 oz•inch)
FF/REW	CQ-201B	70 to 120g•cm (0.98 to 1.66 oz•inch)

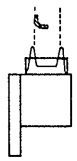
Record/Playback Head Height/Declination Adjustment

Procedures :

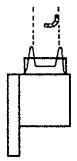
1. Test cassette : CQ-009C
2. Insert the mirror cassette and put the unit in record/Playback mode.
   1) Height Adjustment :
   Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws Ⓐ , Ⓑ and Ⓒ , respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally ; but loosen them if the tape begins to curl on the top side (outer side).



Normal (Record/playback head as seen from the side of the erasehead.)



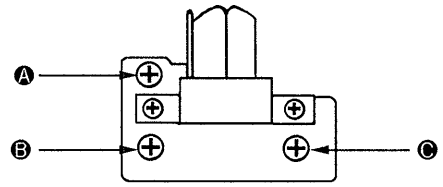
Curling on the inner side Tighten screws Ⓐ, Ⓑ and Ⓒ.



Curling on the outer side Loosen screws Ⓐ, Ⓑ and Ⓒ.

   2) Declination Adjustment :
   While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.
   Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.
   When there is a shift, tighten screws Ⓑ and Ⓒ equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.
   Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location : – record/playback head –

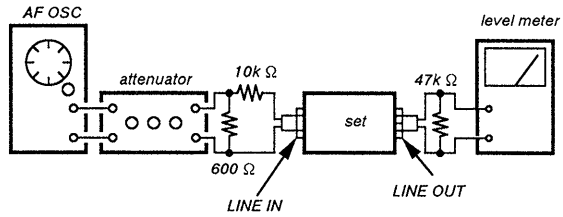


3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
   (Be sure to male playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
   - Switch position
     DOLBY NR switch : OFF
   - Standard record position:
     Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

– Record Mode –



Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (− 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (− 3.8dB)

Test Tape

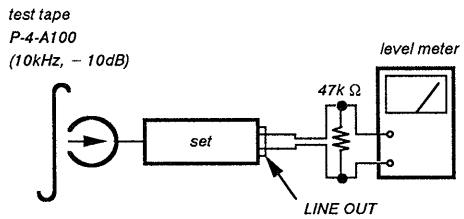
Tape	Contents	Use
P-4-A100	10kHz, − 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

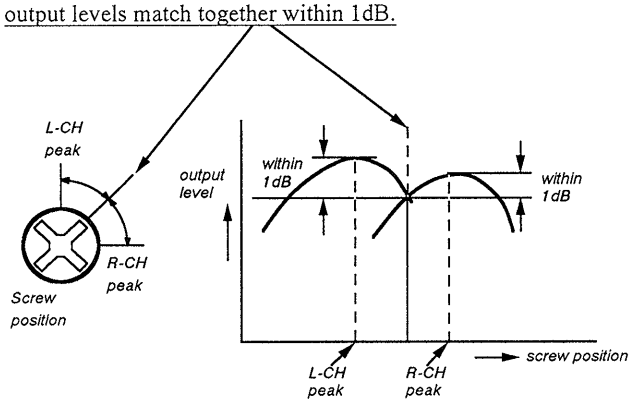
Record/Playback Head Azimuth Adjustment

Procedure :

1. Forward playback Mode

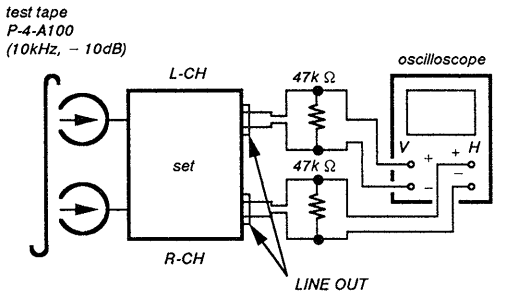


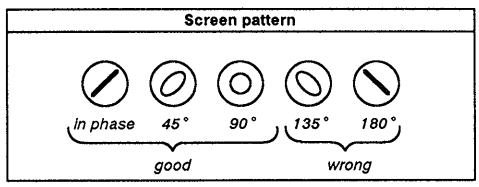
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Phase check

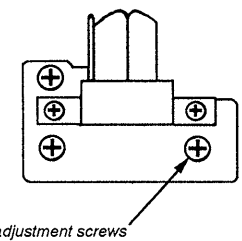
Playback Mode





4. After the adjustment, lock the adjustment screws with suitable locking compound.

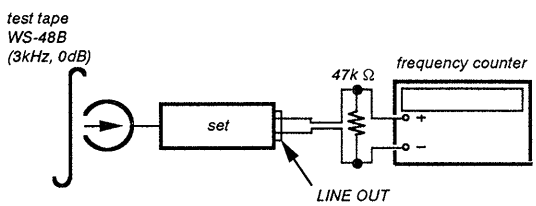
Adjustment Location : − record/playback head −



Tape Speed Adjustment

Procedure :

− Forward Playback Mode −



1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes 3,000 ± 15Hz.

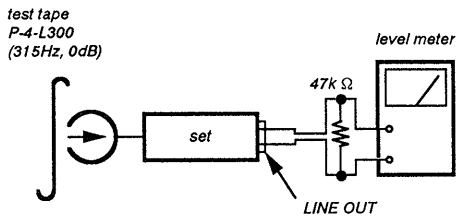
Frequency difference between the beginning and the end of the tape should be within 3%.

Adjustment Location : AUDIO board (Page 10)

Playback Level Adjustment

Procedure :

– Forward Playback Mode –



Adjust RV151 (L-CH) and RV251 (R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : – 7.7 ± 0.5dB (0.301 to 0.338V)

Level difference between channels : within 0.5dB

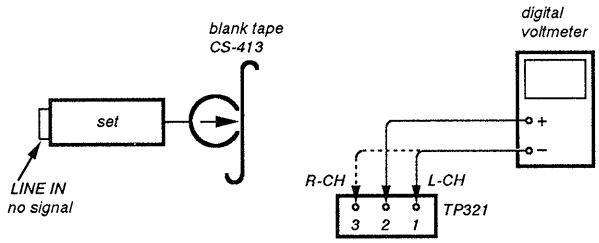
Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times

Adjustment Location : MAIN board (Page 10)

Bias Consumption Current Adjustment

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T121, T221).

Procedure :



1. Connect the digital voltmeter to test point TP321.
2. Set RV121 (L-CH) and RV221 (R-CH) to mechanical center.
3. Set to FWD record mode.
4. Adjust T121 (L-CH) and T221 (R-CH) so that the digital voltmeter reading becomes minimum.

Adjustment Location : MAIN board (Page 10)

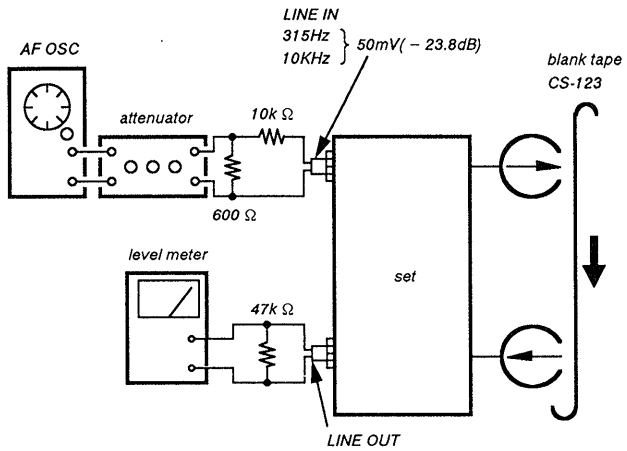
Record Bias Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV121 (L-CH) and RV221 (R-CH) so that the 10 kHz playback output is 0 ± 0.3 dB relative to the 315Hz output.

Adjustment Location : MAIN board (Page 10)

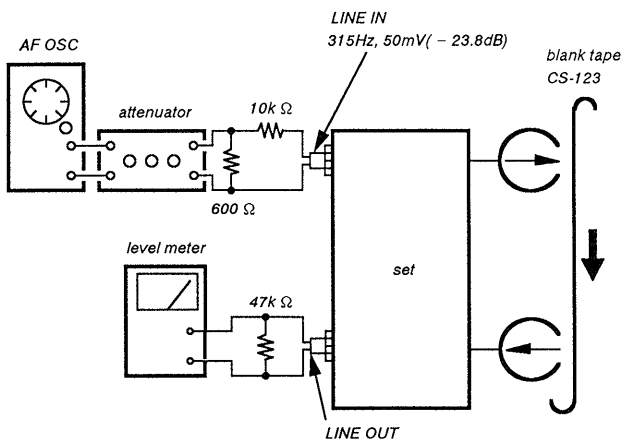
Record Level Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV112 (L-CH) and RV212 (R-CH) so that the level meter reading becomes the adjustment limits below.

Adjustment Value : – 23.8 ± 0.5dB (47.2 to 53mV)

Adjustment Location : MAIN board (Page 10)

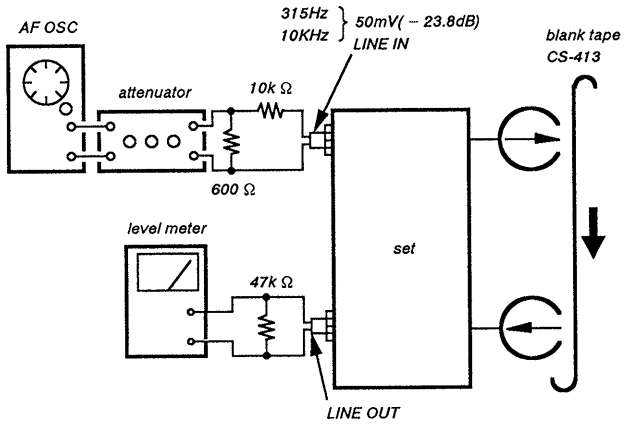
Record EQ (IV) Adjustment

Setting :

REC LEVEL control : Standard Record

Procedure :

1. Mode : Simultaneous record and playback



2. Adjust RV111 (L-CH) and RV211 (R-CH) so that they become maximum.
3. Adjust RV111 (L-CH) and RV211 (R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1dB.
4. Adjust RV312 so that the R-CH becomes the adjustment value.

Adjustment Level :

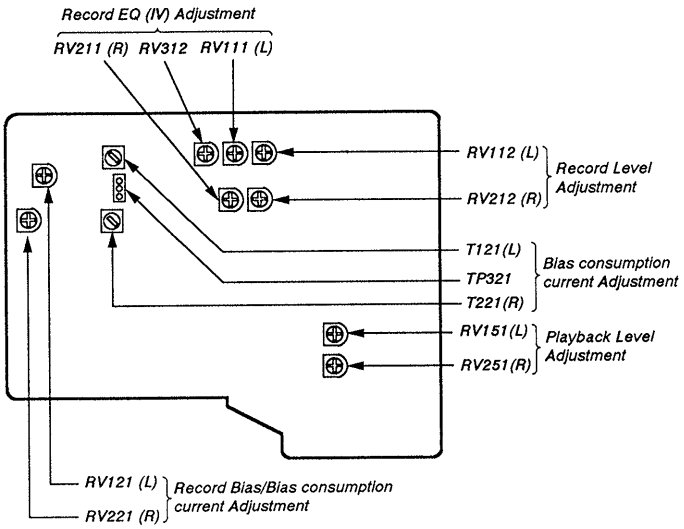
The playback output of 10kHz level difference against 315Hz reference should be ± 1.0dB.

Adjustment Location : MAIN board

– Adjustment Parts Location Diagrams –

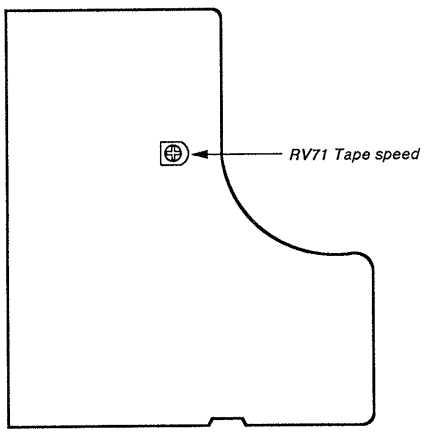
[MAIN BOARD]

(Component Side)



[AUDIO BOARD]

(Component Side)



SECTION 4
EXPLANATION OF IC TERMINALS

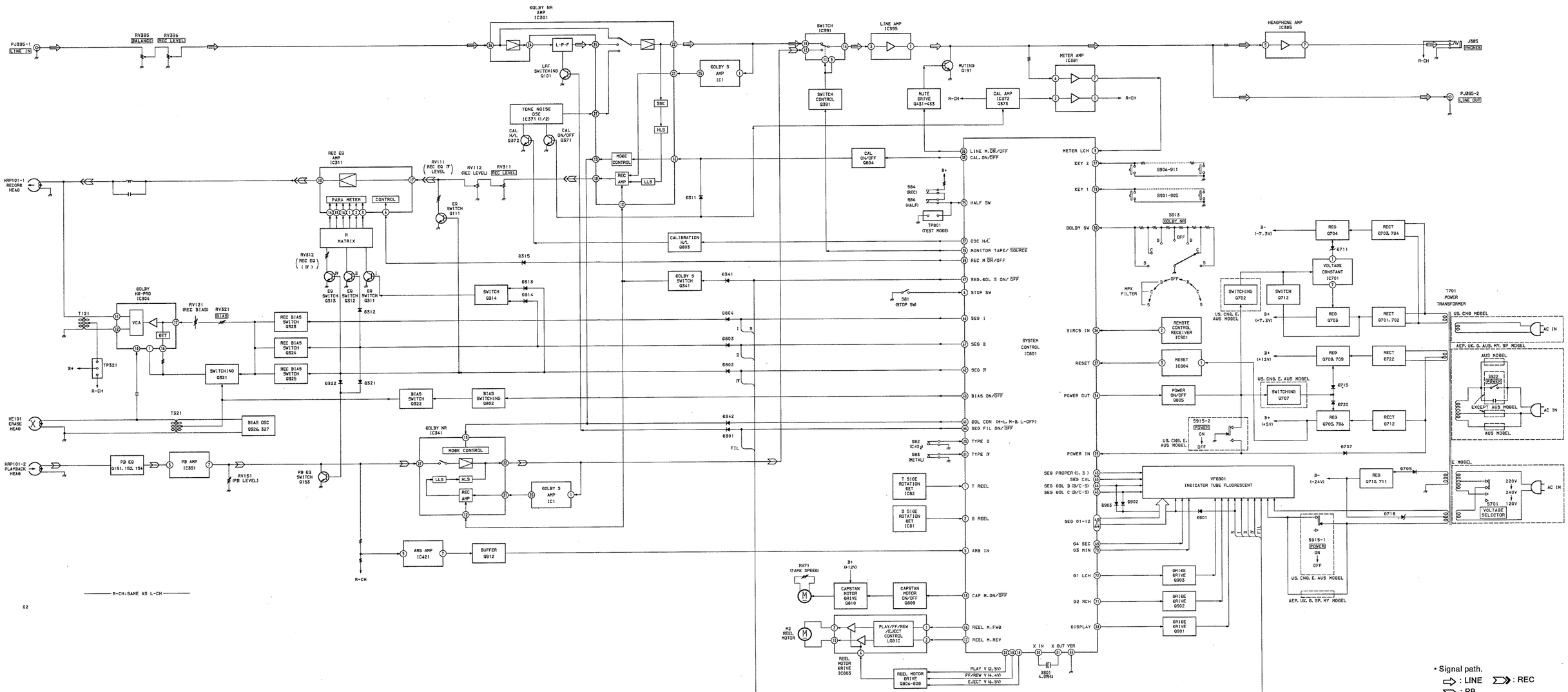
IC801 M38172M4-171FP (SYSTEM CONTROL/VFD901 DRIVE)

Pin No.	Pin name	I/O	Description
1	T • REEL	I	Take up reel rotation detection input.
2	S • REEL	I	Supply reel rotation detection input.
3	METER L-CH	I	Meter level L-CH input.
4	METER R-CH	I	Meter level R-CH input.
5	AMS • IN	I	AMS signal input terminal.
6	STOP SW	I	Mechanism stop switch input terminal.
7	CLOSE SW	–	Not used. (H level)
8	OPEN SW	–	Not used. (H level)
9	CAM • SW3	–	Not used. (H level)
10	CAM • SW2	–	Not used. (H level)
11	CAM • SW1	–	Not used. (H level)
12	CAM • SW0	–	Not used. (H level)
13	CAP • M • ON/$\overline{\text{OFF}}$	O	Capstan motor ON/OFF control. H : ON
14	ASIST M • UP	–	Not used. (L level)
15	ASIST M • DOWN	–	Not used. (L level)
16	REEL M • FWD	O	Reel motor FWD control.
17	REEL M • REV	O	Reel motor REW control.
18	EJECT • V (6.5V)	O	Reel motor eject control.
19	FF/REW • V (4.4V)	O	Reel motor FF/REW control.
20	PLAY • V (2.5V)	O	Reel motor play control.
21	TYPE • Ⅳ	I	Type Ⅳ SW input terminal.
22	HALF SW	–	Not used. (Open)
23	TYPE • Ⅱ	I	Type Ⅱ SW input terminal.
24	TAB • SW	–	Not used. (H level)
25	POWER IN	I	Power OFF detection terminal.
26	SIRCS IN	I	Sircs signal input terminal.
27	RESET	I	System reset terminal.
28	XC IN	–	Not used. (Open)
29	XC OUT	–	Not used. (Open)
30	X IN	I	System clock oscillator input. (4.0MHz)
31	X OUT	O	System clock oscillator output. (4.0MHz)
32	VSS	–	Ground.
33	VER 200/$\overline{190}$	I	Version selection input.
34	POWER OUT	O	Power hold output terminal.
35	MONITOR TAPE/$\overline{\text{SOURCE}}$	O	Audio mode select terminal.
36	LINE M • $\overline{\text{ON}}$/OFF	O	Line mute ON/OFF control.
37	OSC H/$\overline{\text{L}}$	O	OSC frequency H/L selection terminal.
38	CAL ON/$\overline{\text{OFF}}$	O	Calibration ON/OFF control.
39	REC M • $\overline{\text{ON}}$/OFF	O	REC mute ON/OFF control.
40	BIAS ON/$\overline{\text{OFF}}$	O	Bias ON/OFF control.

Pin No.	Pin name	I/O	Description
41	DOL • CON (H-C, M – B, L-OFF)	O	Dolby ON/OFF control.
42	SEG • Ⅳ	O	Bias EQ Ⅳ control.
43	SEG • DOL C (B/C • $\overline{S}$)	O	VFD segment drive (Dolby C).
44	SEG • DOL B (B/C • $\overline{S}$)	O	VFD segment drive (Dolby B).
45	SEG PROPER (Ⅰ , Ⅱ)	O	VFD segment drive (Type Ⅰ , Ⅱ).
46	SEG•FIL ON/$\overline{OFF}$	O	VFD segment drive (Filter).
47	SEG•DOL S ON/$\overline{OFF}$	O	VFD segment drive (Dolby S).
48		–	Not used. (Open)
49	SEG01	O	VFD segment drive.
50	SEG02	O	VFD segment drive.
51	SEG06	O	VFD segment drive.
52	SEG07	O	VFD segment drive.
53	SEG03	O	VFD segment drive.
54	SEG05	O	VFD segment drive.
55	SEG04	O	VFD segment drive.
56	SEG08	O	VFD segment drive.
57	SEG16	O	VFD segment drive.
58	SEG9	O	VFD segment drive.
59	SEG10	O	VFD segment drive.
60	SEG14	O	VFD segment drive.
61	SEG15	O	VFD segment drive.
62	SEG11	O	VFD segment drive.
63	SEG13	O	VFD segment drive.
64	SEG12	O	VFD segment drive.
65	SEG • CAL	O	VFD segment drive. (calibration)
66	SEG • Ⅰ	O	Bias EQ Ⅰ control.
67	SEG • Ⅱ	O	Bias EQ Ⅱ control.
68	G5-DISPLAY	O	VFD colum display.
69	G4-SEC	O	VFD colum SEC.
70	G3-MIN	O	VFD colum MIN.
71	G2-RCH	O	VFD colum R-CH.
72	G1-LCH	O	VFD colum L-CH.
73	VCC	–	Power supply. (+5V)
74	VEE	–	Power supply. (–24V)
75	AVSS	–	Analog for power supply. (Ground)
76	VREF	–	A/D referance voltage. (+5V)
77	KEY2	I	Key input terminal.
78	KEY1	I	Key input terminal.
79	HALF SW	I	Half pawl switch input terminal.
80	DOLBY SW	I	Dolby switch input terminal.

SECTION 5
DIAGRAMS

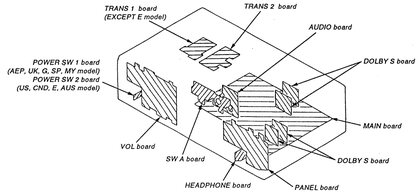
5-1. BLOCK DIAGRAM



• Signal path.
⇨ : LINE ⇛ : REC
⇛ : PB

• Abbreviation
CND : Canadian SP : Singapore
AUS : Australian G : German
MY : Malaysia

5-2. CIRCUIT BOARDS LOCATION



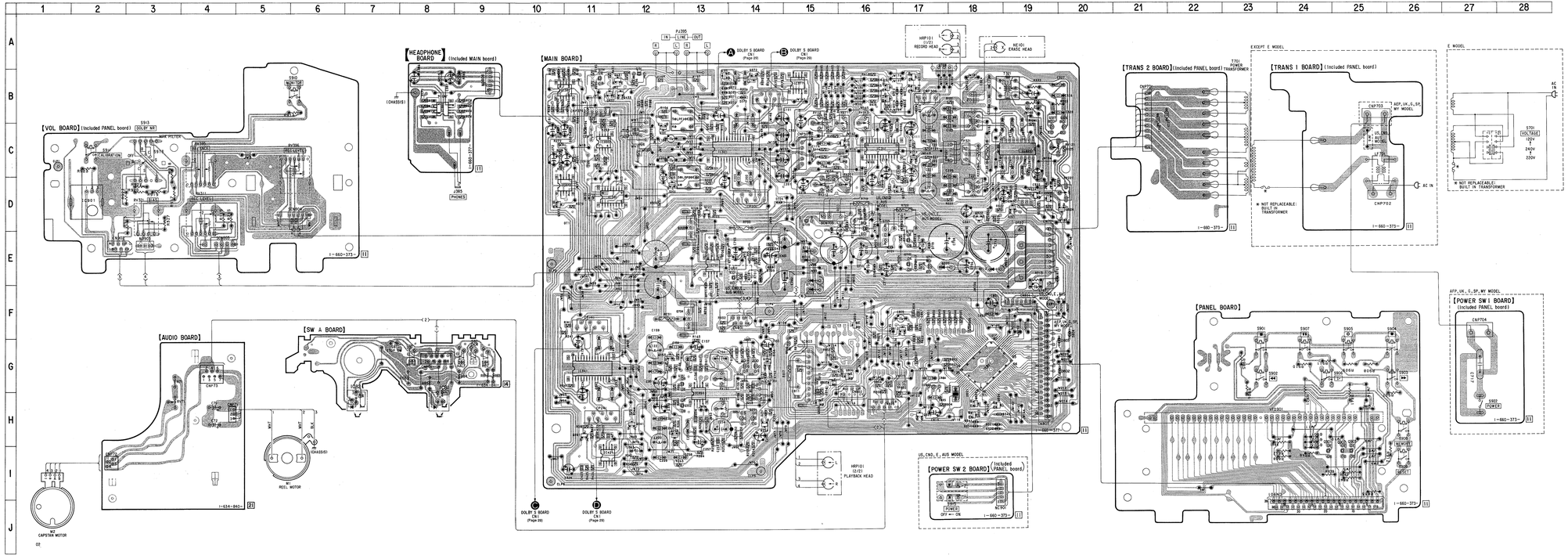
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D151	G - 14	D715	D - 16	IC801	G - 18	Q352	H - 13
D181	B - 11	D716	D - 15	IC803	G - 15	Q371	B - 2
D182	B - 10	D717	E - 17	IC804	G - 17	Q372	B - 14
D183	C - 10	D718	E - 16	IC901	D - 2	Q373	D - 10
D251	H - 14	D719	E - 17			Q391	H - 11
D281	B - 11	D720	D - 17	Q101	C - 12	Q431	B - 11
D282	B - 10	D721	E - 16	Q111	C - 16	Q432	B - 11
D283	C - 11	D722	E - 19	Q112	C - 17	Q433	B - 12
D301	H - 18	D723	D - 13	Q151	G - 14	Q702	E - 14
D311	B - 17	D724	D - 14	Q152	G - 14	Q703	D - 13
D312	B - 17	D801	G - 17	Q153	G - 12	Q704	F - 13
D313	B - 17	D802	G - 20	Q154	G - 14	Q705	D - 16
D314	B - 17	D803	G - 19	Q191	B - 12	Q706	E - 17
D315	B - 17	D804	F - 20	Q201	D - 12	Q707	D - 16
D321	H - 18	D901	H - 24	Q211	C - 16	Q708	A - 17
D322	H - 18	D902	H - 24	Q212	D - 17	Q709	D - 15
D341	H - 18	D903	I - 24	Q251	H - 14	Q710	E - 17
D342	H - 18			Q252	H - 14	Q711	E - 17
D371	B - 13			Q253	H - 12	Q712	E - 14
D372	B - 13	IC81	H - 8	Q254	H - 14	Q722	D - 13
		IC82	H - 7				
D373	B - 14	IC301	C - 13	Q291	B - 11	Q802	H - 17
D431	E - 14	IC304	C - 19	Q311	B - 16	Q803	H - 17
D701	E - 15	IC311	C - 16	Q312	B - 17	Q804	H - 17
D702	E - 15			Q313	B - 15	Q805	H - 17
D703	F - 15	IC341	G - 11	Q314	B - 16	Q806	G - 16
		IC351	H - 13				
D704	E - 15	IC371	B - 15	Q321	D - 19	Q807	G - 15
D705	E - 17	IC372	D - 11	Q322	D - 18	Q808	H - 15
D706	D - 18	IC381	B - 10	Q323	D - 19	Q809	F - 16
D707	E - 19			Q324	D - 20	Q810	G - 15
D708	E - 14	IC385	B - 8	Q325	D - 19	Q812	F - 17
		IC391	D - 11				
D709	E - 14	IC395	C - 11	Q326	C - 19	Q901	I - 24
D710	E - 13	IC421	I - 11	Q327	C - 20	Q902	I - 25
D711	F - 13	IC701	E - 13	Q341	H - 12	Q903	I - 25
D712	E - 18			Q351	G - 13		

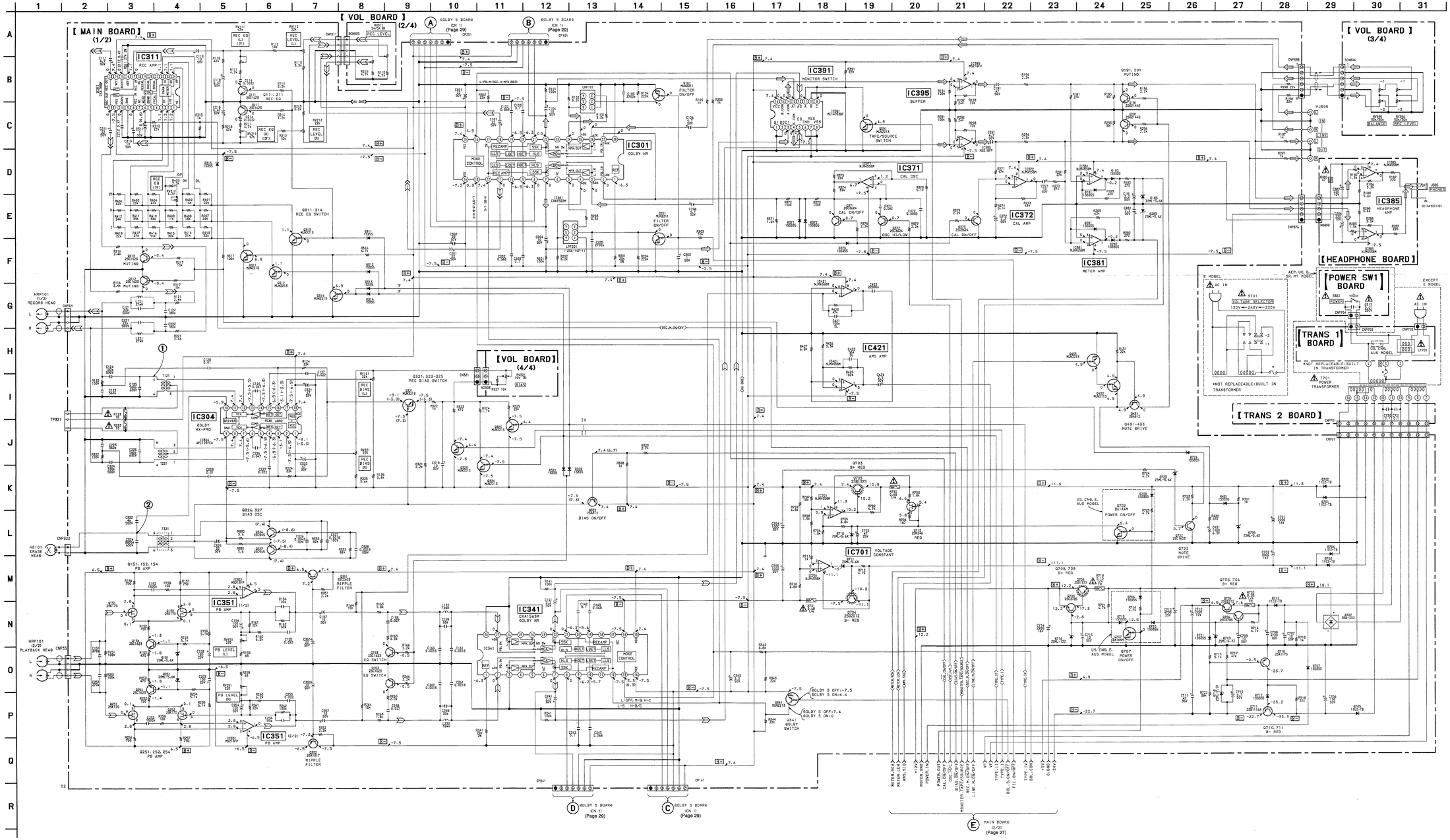
Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- Abbreviation
  CND : Canadian SP : Singapore
  AUS : Australian G : German
  MY : Malaysia

5-3. PRINTED WIRING BOARDS (MAIN SECTION)


【VOL BOARD】 (Included PANEL board)
【HEADPHONE BOARD】 (Included MAIN board)
【MAIN BOARD】
【AUDIO BOARD】
【SW A BOARD】
【TRANS 2 BOARD】 (Included PANEL board)
【TRANS 1 BOARD】 (Included PANEL board)
【PANEL BOARD】
【POWER SW 2 BOARD】 (Included PANEL board)
【POWER SW 1 BOARD】 (Included PANEL board)
EXCEPT E MODEL
E MODEL
AEP, UK, G, SP, MY MODEL
US, CND, E, AUS MODEL
• NOT REPLACEABLE: BUILT IN TRANSFORMER
DOLBY S BOARD (Page 20)
HEAD
CAPSTAN MOTOR
REEL MOTOR

5-4. SCHEMATIC DIAGRAM (MAIN (1/2) SECTION)


【MAIN BOARD】 (1/2)
【VOL BOARD】 (2/4)
【VOL BOARD】 (3/4)
【VOL BOARD】 (4/4)
【HEADPHONE BOARD】
【POWER SW1 BOARD】
【TRANS 1 BOARD】
【TRANS 2 BOARD】
IC311 REC AMP
IC301 DOLBY NR
IC304 DOLBY HX-PRO
IC341 CXA1543M DOLBY NR
IC351 PB AMP (1/2)
IC351 PB AMP (2/2)
IC371 CAL OSC
IC372 CAL AMP
IC381 METER AMP
IC385 HEADPHONE AMP
IC391 MONITOR SWITCH
IC395 BUFFER
IC421 AMS AMP
IC701 VOLTAGE CONSTANT
Q311, 215 REC EQ
Q151, 152, 154 PB AMP
Q251, 252, 254 PB AMP
Q321, 323-325 REC BIAS SWITCH
Q324, 327 BIAS OSC
Q431-433 MUTE DRIVE
Q441 DOLBY SWITCH
Q701 B+ REG
Q702 BATAM POWER ON/OFF
Q707 POWER ON/OFF
Q708, 709 B+ REG
Q704, 705 B+ REG
Q710, 711 B- REG
Q191, 291 MUTING
Q311-314 REC EQ SWITCH
Q321, 323-325 REC BIAS SWITCH
Q324, 327 BIAS OSC
Q431-433 MUTE DRIVE
Q441 DOLBY SWITCH
Q701 B+ REG
Q702 BATAM POWER ON/OFF
Q707 POWER ON/OFF
Q708, 709 B+ REG
Q704, 705 B+ REG
Q710, 711 B- REG
HRP101 (1/2) RECORD HEAD
HRP101 (2/2) PLAYBACK HEAD
HE101 ERASE HEAD
J395 PHONES
J396 CHASSIS
T121
T321
T701 POWER TRANSFORMER
S701 VOLTAGE SELECTION
S702 POWER
S703 TAPE/SOURCE SWITCH
S704 FILTER ON/OFF
S705 FILTER ON/OFF
S706 MONITOR SWITCH
S707 MODE CONTROL
S708 MODE CONTROL
S709 REC BIAS
S710 REC BIAS
S711 REC LEVEL
S712 REC LEVEL
S713 REC EQ
S714 REC EQ
S715 REC LEVEL
S716 REC LEVEL
S717 REC EQ
S718 REC EQ
S719 REC LEVEL
S720 REC LEVEL
S721 PB LEVEL
S722 PB LEVEL
S723 EQ SWITCH
S724 EQ SWITCH
S725 PB LEVEL
S726 PB LEVEL
S727 REC BIAS
S728 REC BIAS
S729 REC LEVEL
S730 REC LEVEL
S731 REC EQ
S732 REC EQ
S733 REC LEVEL
S734 REC LEVEL
S735 REC EQ
S736 REC EQ
S737 REC LEVEL
S738 REC LEVEL
S739 PB LEVEL
S740 PB LEVEL
S741 EQ SWITCH
S742 EQ SWITCH
S743 PB LEVEL
S744 PB LEVEL
S745 REC BIAS
S746 REC BIAS
S747 REC LEVEL
S748 REC LEVEL
S749 REC EQ
S750 REC EQ
S751 REC LEVEL
S752 REC LEVEL
S753 REC EQ
S754 REC EQ
S755 REC LEVEL
S756 REC LEVEL
S757 PB LEVEL
S758 PB LEVEL
S759 EQ SWITCH
S760 EQ SWITCH
S761 PB LEVEL
S762 PB LEVEL
S763 REC BIAS
S764 REC BIAS
S765 REC LEVEL
S766 REC LEVEL
S767 REC EQ
S768 REC EQ
S769 REC LEVEL
S770 REC LEVEL
S771 REC EQ
S772 REC EQ
S773 REC LEVEL
S774 REC LEVEL
S775 PB LEVEL
S776 PB LEVEL
S777 EQ SWITCH
S778 EQ SWITCH
S779 PB LEVEL
S780 PB LEVEL
S781 REC BIAS
S782 REC BIAS
S783 REC LEVEL
S784 REC LEVEL
S785 REC EQ
S786 REC EQ
S787 REC LEVEL
S788 REC LEVEL
S789 REC EQ
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S791 REC LEVEL
S792 REC LEVEL
S793 PB LEVEL
S794 PB LEVEL
S795 EQ SWITCH
S796 EQ SWITCH
S797 PB LEVEL
S798 PB LEVEL
S799 REC BIAS
S800 REC BIAS
S801 REC LEVEL
S802 REC LEVEL
S803 REC EQ
S804 REC EQ
S805 REC LEVEL
S806 REC LEVEL
S807 REC EQ
S808 REC EQ
S809 REC LEVEL
S810 REC LEVEL
S811 PB LEVEL
S812 PB LEVEL
S813 EQ SWITCH
S814 EQ SWITCH
S815 PB LEVEL
S816 PB LEVEL
S817 REC BIAS
S818 REC BIAS
S819 REC LEVEL
S820 REC LEVEL
S821 REC EQ
S822 REC EQ
S823 REC LEVEL
S824 REC LEVEL
S825 REC EQ
S826 REC EQ
S827 REC LEVEL
S828 REC LEVEL
S829 PB LEVEL
S830 PB LEVEL
S831 EQ SWITCH
S832 EQ SWITCH
S833 PB LEVEL
S834 PB LEVEL
S835 REC BIAS
S836 REC BIAS
S837 REC LEVEL
S838 REC LEVEL
S839 REC EQ
S840 REC EQ
S841 REC LEVEL
S842 REC LEVEL
S843 REC EQ
S844 REC EQ
S845 REC LEVEL
S846 REC LEVEL
S847 PB LEVEL
S848 PB LEVEL
S849 EQ SWITCH
S850 EQ SWITCH
S851 PB LEVEL
S852 PB LEVEL
S853 REC BIAS
S854 REC BIAS
S855 REC LEVEL
S856 REC LEVEL
S857 REC EQ
S858 REC EQ
S859 REC LEVEL
S860 REC LEVEL
S861 REC EQ
S862 REC EQ
S863 REC LEVEL
S864 REC LEVEL
S865 PB LEVEL
S866 PB LEVEL
S867 EQ SWITCH
S868 EQ SWITCH
S869 PB LEVEL
S870 PB LEVEL
S871 REC BIAS
S872 REC BIAS
S873 REC LEVEL
S874 REC LEVEL
S875 REC EQ
S876 REC EQ
S877 REC LEVEL
S878 REC LEVEL
S879 REC EQ
S880 REC EQ
S881 REC LEVEL
S882 REC LEVEL
S883 PB LEVEL
S884 PB LEVEL
S885 EQ SWITCH
S886 EQ SWITCH
S887 PB LEVEL
S888 PB LEVEL
S889 REC BIAS
S890 REC BIAS
S891 REC LEVEL
S892 REC LEVEL
S893 REC EQ
S894 REC EQ
S895 REC LEVEL
S896 REC LEVEL
S897 REC EQ
S898 REC EQ
S899 REC LEVEL
S900 REC LEVEL
S901 PB LEVEL
S902 PB LEVEL
S903 EQ SWITCH
S904 EQ SWITCH
S905 PB LEVEL
S906 PB LEVEL
S907 REC BIAS
S908 REC BIAS
S909 REC LEVEL
S910 REC LEVEL
S911 REC EQ
S912 REC EQ
S913 REC LEVEL
S914 REC LEVEL
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S916 REC EQ
S917 REC LEVEL
S918 REC LEVEL
S919 PB LEVEL
S920 PB LEVEL
S921 EQ SWITCH
S922 EQ SWITCH
S923 PB LEVEL
S924 PB LEVEL
S925 REC BIAS
S926 REC BIAS
S927 REC LEVEL
S928 REC LEVEL
S929 REC EQ
S930 REC EQ
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S932 REC LEVEL
S933 REC EQ
S934 REC EQ
S935 REC LEVEL
S936 REC LEVEL
S937 PB LEVEL
S938 PB LEVEL
S939 EQ SWITCH
S940 EQ SWITCH
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S942 PB LEVEL
S943 REC BIAS
S944 REC BIAS
S945 REC LEVEL
S946 REC LEVEL
S947 REC EQ
S948 REC EQ
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S950 REC LEVEL
S951 REC EQ
S952 REC EQ
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S954 REC LEVEL
S955 PB LEVEL
S956 PB LEVEL
S957 EQ SWITCH
S958 EQ SWITCH
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S964 REC LEVEL
S965 REC EQ
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S967 REC LEVEL
S968 REC LEVEL
S969 REC EQ
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S972 REC LEVEL
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S976 EQ SWITCH
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S979 REC BIAS
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S990 REC LEVEL
S991 PB LEVEL
S992 PB LEVEL
S993 EQ SWITCH
S994 EQ SWITCH
S995 PB LEVEL
S996 PB LEVEL
S997 REC BIAS
S998 REC BIAS
S999 REC LEVEL
S1000 REC LEVEL
S1001 REC EQ
S1002 REC EQ
S1003 REC LEVEL
S1004 REC LEVEL
S1005 REC EQ
S1006 REC EQ
S1007 REC LEVEL
S1008 REC LEVEL
S1009 PB LEVEL
S1010 PB LEVEL
S1011 EQ SWITCH
S1012 EQ SWITCH
S1013 PB LEVEL
S1014 PB LEVEL
S1015 REC BIAS
S1016 REC BIAS
S1017 REC LEVEL
S1018 REC LEVEL
S1019 REC EQ
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S1022 REC LEVEL
S1023 REC EQ
S1024 REC EQ
S1025 REC LEVEL
S1026 REC LEVEL
S1027 PB LEVEL
S1028 PB LEVEL
S1029 EQ SWITCH
S1030 EQ SWITCH
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S1041 REC EQ
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S1044 REC LEVEL
S1045 PB LEVEL
S1046 PB LEVEL
S1047 EQ SWITCH
S1048 EQ SWITCH
S1049 PB LEVEL
S1050 PB LEVEL
S1051 REC BIAS
S1052 REC BIAS
S1053 REC LEVEL
S1054 REC LEVEL
S1055 REC EQ
S1056 REC EQ
S1057 REC LEVEL
S1058 REC LEVEL
S1059 REC EQ
S1060 REC EQ
S1061 REC LEVEL
S1062 REC LEVEL
S1063 PB LEVEL
S1064 PB LEVEL
S1065 EQ SWITCH
S1066 EQ SWITCH
S1067 PB LEVEL
S1068 PB LEVEL
S1069 REC BIAS
S1070 REC BIAS
S1071 REC LEVEL
S1072 REC LEVEL
S1073 REC EQ
S1074 REC EQ
S1075 REC LEVEL
S1076 REC LEVEL
S1077 REC EQ
S1078 REC EQ
S1079 REC LEVEL
S1080 REC LEVEL
S1081 PB LEVEL
S1082 PB LEVEL
S1083 EQ SWITCH
S1084 EQ SWITCH
S1085 PB LEVEL
S1086 PB LEVEL
S1087 REC BIAS
S1088 REC BIAS
S1089 REC LEVEL
S1090 REC LEVEL
S1091 REC EQ
S1092 REC EQ
S1093 REC LEVEL
S1094 REC LEVEL
S1095 REC EQ
S1096 REC EQ
S1097 REC LEVEL
S1098 REC LEVEL
S1099 PB LEVEL
S1100 PB LEVEL
S1101 EQ SWITCH
S1102 EQ SWITCH
S1103 PB LEVEL
S1104 PB LEVEL
S1105 REC BIAS
S1106 REC BIAS
S1107 REC LEVEL
S1108 REC LEVEL
S1109 REC EQ
S1110 REC EQ
S1111 REC LEVEL
S1112 REC LEVEL
S1113 REC EQ
S1114 REC EQ
S1115 REC LEVEL
S1116 REC LEVEL
S1117 PB LEVEL
S1118 PB LEVEL
S1119 EQ SWITCH
S1120 EQ SWITCH
S1121 PB LEVEL
S1122 PB LEVEL
S1123 REC BIAS
S1124 REC BIAS
S1125 REC LEVEL
S1126 REC LEVEL
S1127 REC EQ
S1128 REC EQ
S1129 REC LEVEL
S1130 REC LEVEL
S1131 REC EQ
S1132 REC EQ
S1133 REC LEVEL
S1134 REC LEVEL
S1135 PB LEVEL
S1136 PB LEVEL
S1137 EQ SWITCH
S1138 EQ SWITCH
S1139 PB LEVEL
S1140 PB LEVEL
S1141 REC BIAS
S1142 REC BIAS
S1143 REC LEVEL
S1144 REC LEVEL
S1145 REC EQ
S1146 REC EQ
S1147 REC LEVEL
S1148 REC LEVEL
S1149 REC EQ
S1150 REC EQ
S1151 REC LEVEL
S1152 REC LEVEL
S1153 PB LEVEL
S1154 PB LEVEL
S1155 EQ SWITCH
S1156 EQ SWITCH
S1157 PB LEVEL
S1158 PB LEVEL
S1159 REC BIAS
S1160 REC BIAS
S1161 REC LEVEL
S1162 REC LEVEL
S1163 REC EQ
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S1165 REC LEVEL
S1166 REC LEVEL
S1167 REC EQ
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S1169 REC LEVEL
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S1192 EQ SWITCH
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S1197 REC LEVEL
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S1891 PB LEVEL
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S1893 EQ SWITCH
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S1981 PB LEVEL
S1982 PB LEVEL
S1983 EQ SWITCH
S1984 EQ SWITCH
S1985 PB LEVEL
S1986 PB LEVEL
S1987 REC BIAS
S1988 REC BIAS
S1989 REC LEVEL
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S1994 REC LEVEL
S1995 REC EQ
S1996 REC EQ
S1997 REC LEVEL
S1998 REC LEVEL
S1999 PB LEVEL
S2000 PB LEVEL
S2001 EQ SWITCH
S2002 EQ SWITCH
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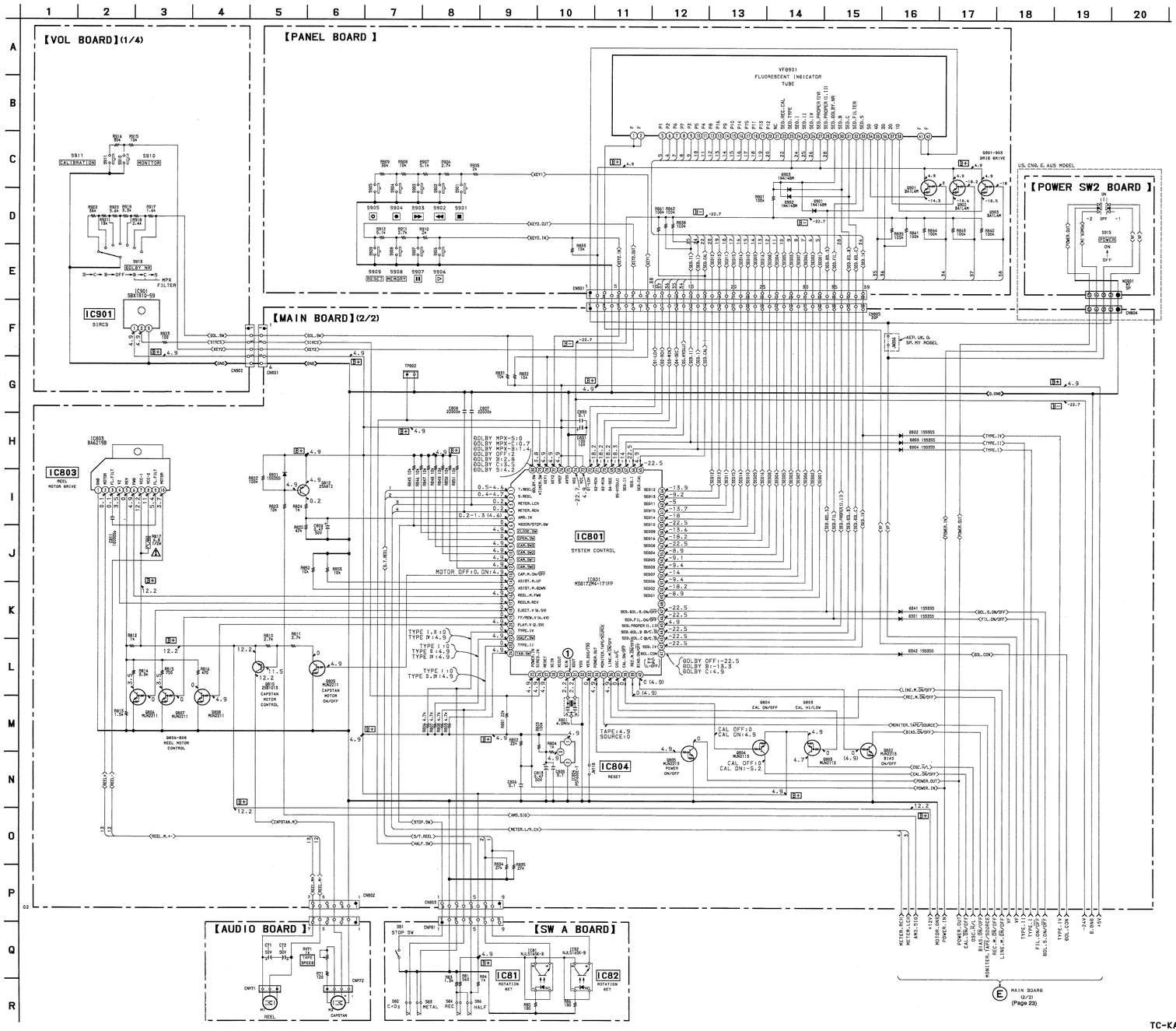
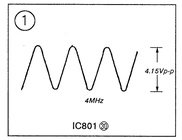
S2004 PB LEVEL
S2005 REC BIAS
S2006 REC BIAS
S2007 REC LEVEL
S2008 REC LEVEL
S2009 REC EQ
S2010 REC EQ
S2011 REC LEVEL
S2012 REC LEVEL
S2013 REC EQ
S2014 REC EQ
S2015 REC LEVEL
S2016 REC LEVEL
S2017 PB LEVEL
S2018 PB LEVEL
S2019 EQ SWITCH
S2020 EQ SWITCH
S2021 PB LEVEL
S2022 PB LEVEL
S2023 REC BIAS
S2024 REC BIAS
S2025 REC LEVEL
S2026 REC LEVEL
S2027 REC EQ
S2028 REC EQ
S2029 REC LEVEL
S2030 REC LEVEL
S2031 REC EQ

5-5. SCHEMATIC DIAGRAM (MAIN (2/2) SECTION)



● WAVEFORMS



Note :

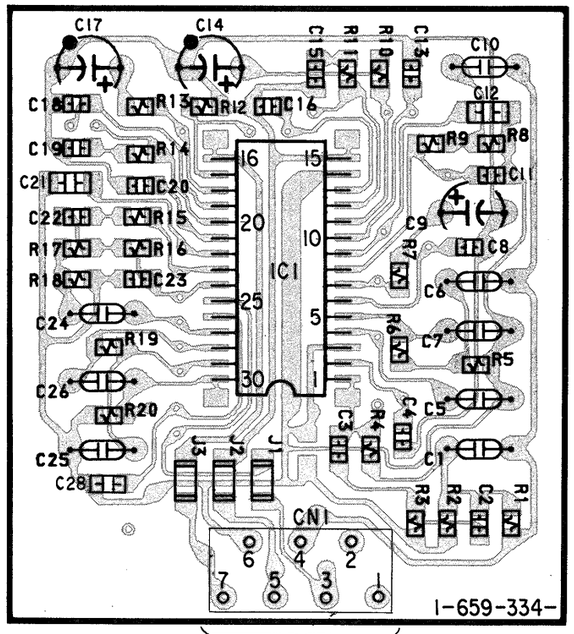
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⌇⌇⌇ : fusible resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B − : B − Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  CND : Canadian SP : Singapore
  AUS : Australian G : German
  MY : Malaysia

5-6. PRINTED WIRING BOARDS (DOLBY (S) BOARD)

【DOLBY S BOARD】



12
(12)

A, B, C, D

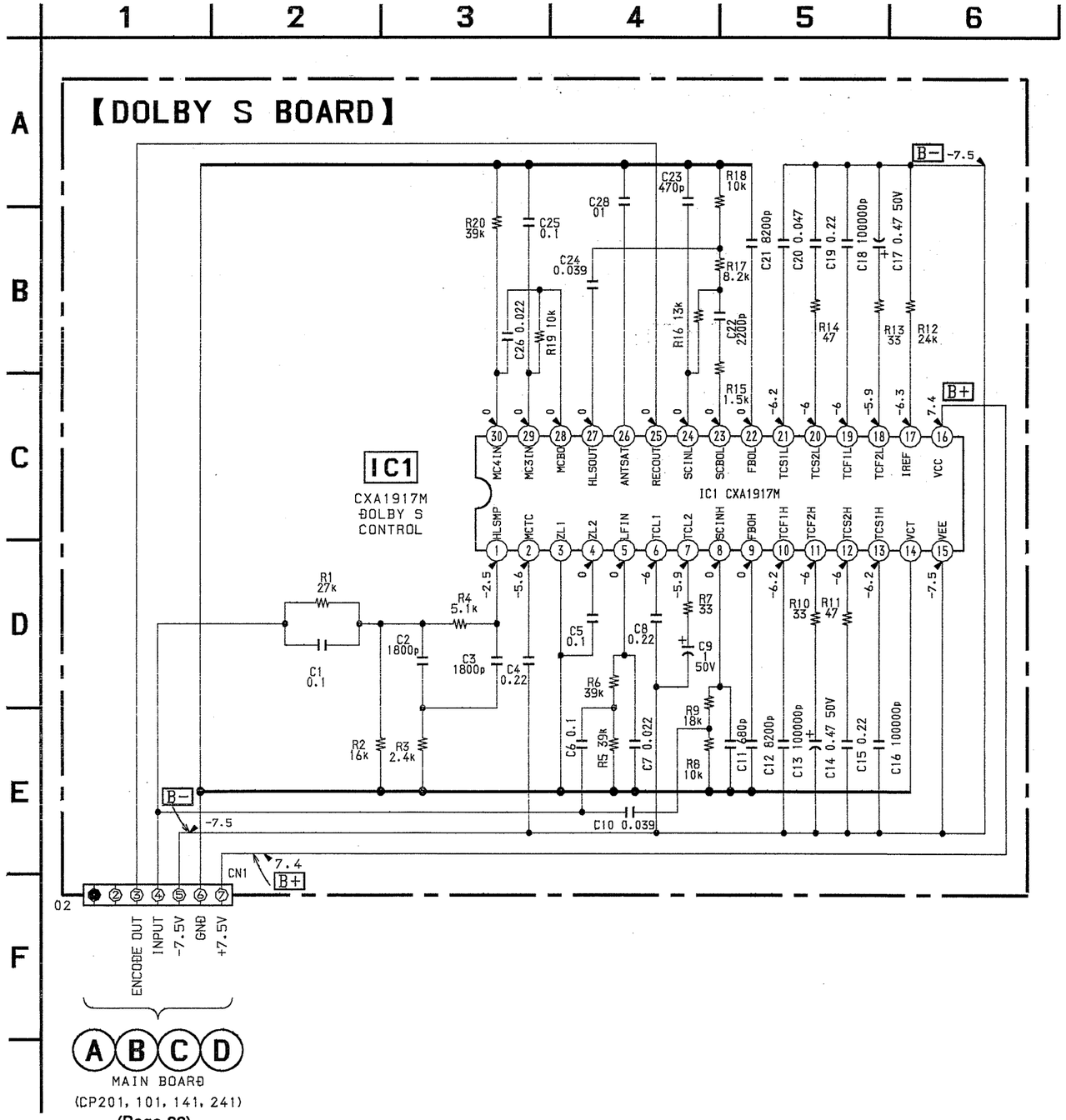
MAIN BOARD
CP201, 101, 141, 241
(Page 18) (Page 18)
(Page 19) (Page 18)

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

5-7. SCHEMATIC DIAGRAM (DOLBY (S) BOARD)

• Refer to page 31 for IC Block Diagram.

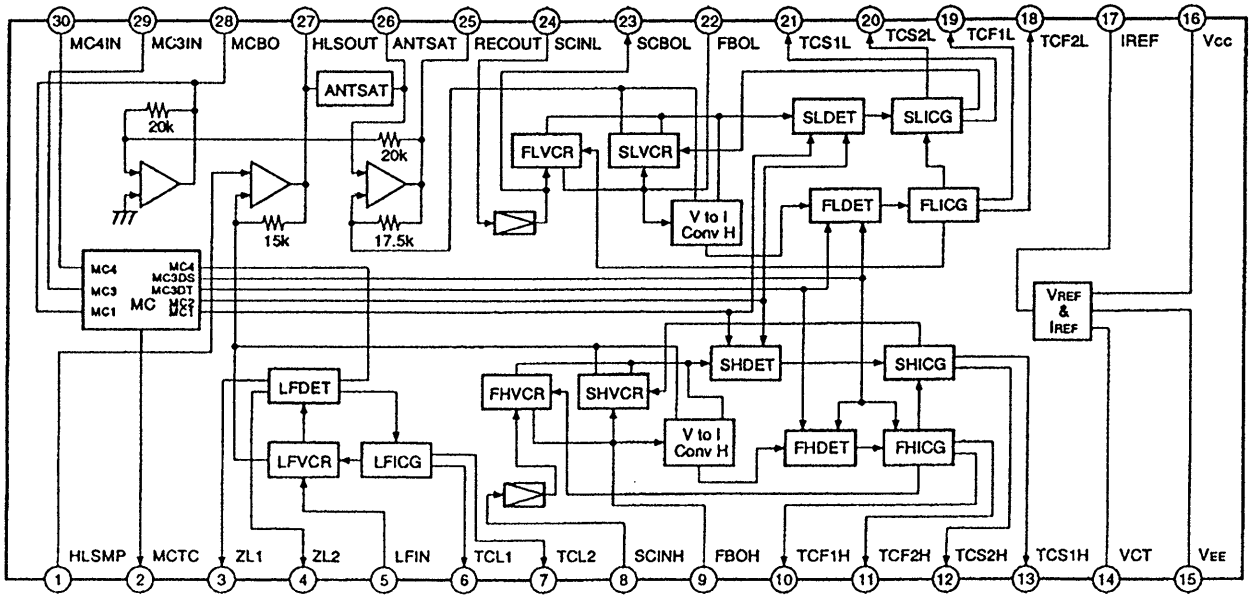


Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- B − : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

• IC BLOCK DIAGRAM

IC1 CXA1917AM-T6



SECTION 6
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

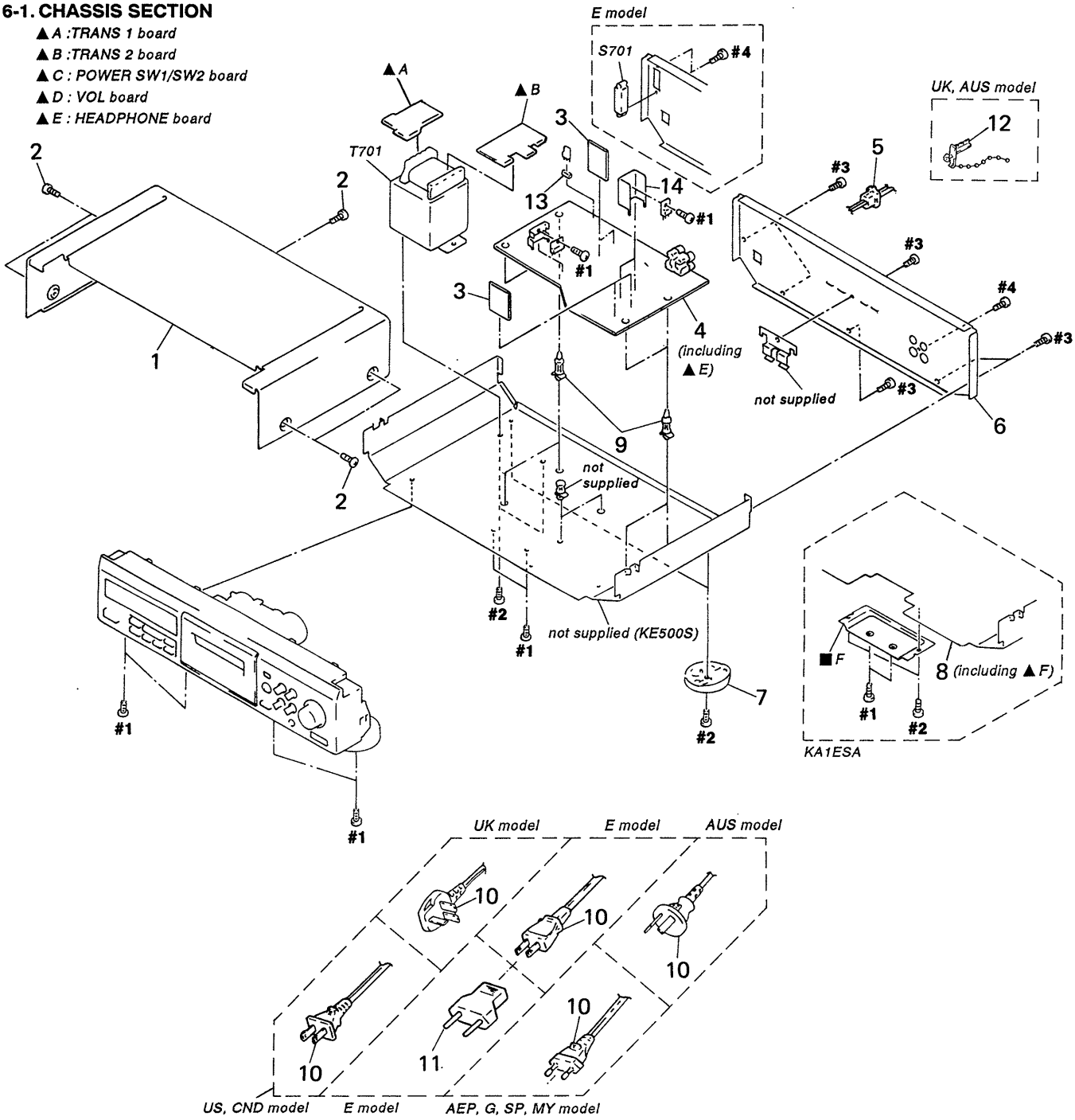
CND	: Canadian	SP	: Singapore
AUS	: Australian	G	: German
MY	: Malaysia		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS SECTION

▲A :TRANS 1 board
▲B :TRANS 2 board
▲C : POWER SW1/SW2 board
▲D : VOL board
▲E : HEADPHONE board

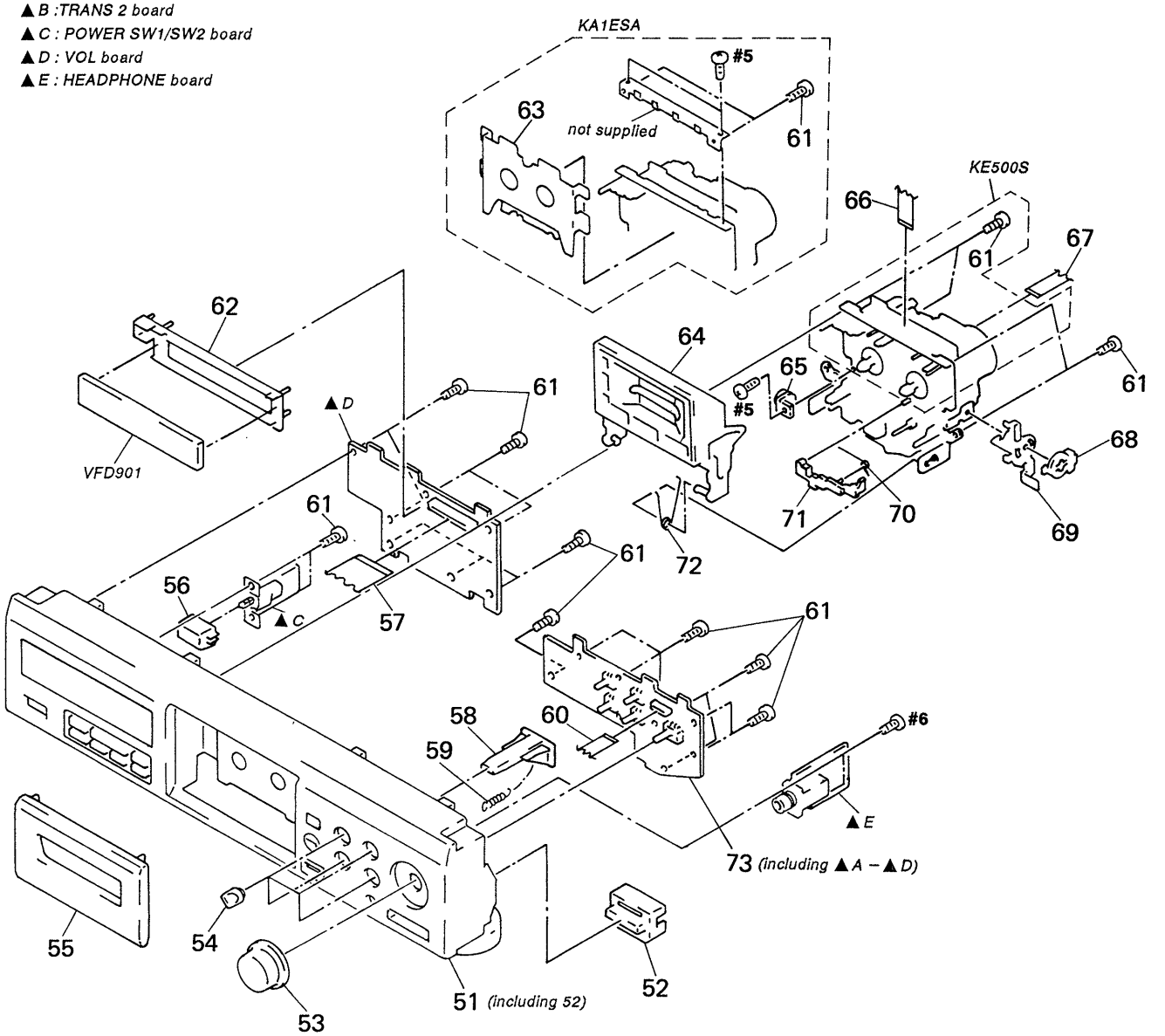


Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726)	
2	3-704-366-01	SCREW (CASE) (M3X8)	
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE	
* 4	A-2007-530-A	MAIN BOARD, COMPLETE (KA1ESA)	
* 4	A-2007-531-A	MAIN BOARD, COMPLETE (KE500S:US,E,AUS)	
* 4	A-2007-533-A	MAIN BOARD, COMPLETE(KE500S:AEP,UK,G,SP,MY)	
* 5	3-703-244-00	BUSHING (2104),CORD (AEP,UK,G,AUS,SP,MY)	
5	3-703-571-11	BUSHING (S) (4516), CORD (US,CND,E)	
* 6	3-933-308-31	PANEL, BACK (KE500S:US)	
* 6	3-933-308-41	PANEL, BACK (KE500S:AEP,G,SP,MY)	
* 6	3-933-308-51	PANEL, BACK (KE500S:UK)	
* 6	3-933-308-61	PANEL, BACK (KE500S:E)	
* 6	3-933-308-91	PANEL, BACK (KE500S:AUS)	
* 6	3-933-309-01	PANEL, BACK (KA1ESA)	
7	X-4947-207-1	FOOT ASSY (F50150S) (EXCEPT US,CND)	
7	X-4947-208-1	FOOT ASSY (F50150S) (US,CND)	
* 8	A-2004-600-A	CHASSIS ASSY (KA1ESA)	

Ref. No.	Part No.	Description	Remark
* 9	3-346-265-31	HOLDER, PC BOARD	
⚠10	1-551-188-XX	CORD, POWER (E)	
⚠10	1-558-945-21	CORD, POWER (POLAR.SPT-1)(US,CND)	
⚠10	1-575-651-21	CORD, POWER (AEP,G,SP,MY)	
⚠10	1-696-586-11	CORD, POWER (UK)	
⚠10	1-696-845-11	CORD, POWER (AUS)	
⚠10	1-751-523-11	CORD, POWER (UK)	
⚠11	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
12	4-956-370-12	BAND, PLUG FIXED (UK,AUS)	
13	3-923-762-11	HOLDER (TR)	
* 14	3-356-925-01	HEAT SINK	
⚠S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) (E)	
⚠T701	1-429-611-11	TRANSFORMER, POWER (US,CND)	
⚠T701	1-429-612-11	TRANSFORMER, POWER (EXCEPT US,CND,AUS,E)	
⚠T701	1-429-613-11	TRANSFORMER, POWER (E)	
⚠T701	1-429-659-11	TRANSFORMER, POWER (AUS)	

6-2. FRONT PANEL SECTION

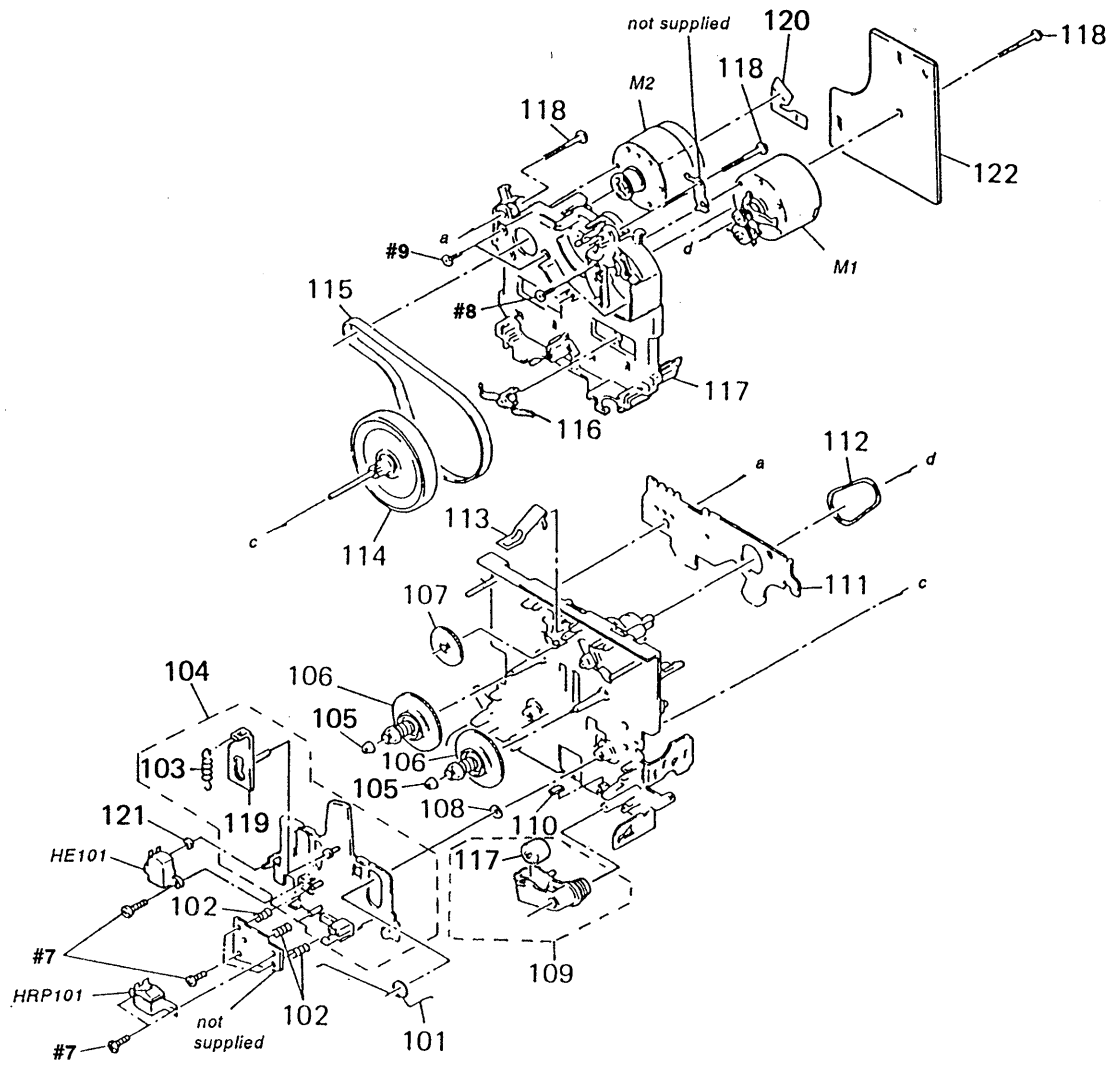
▲A :TRANS 1 board
▲B :TRANS 2 board
▲C : POWER SW1/SW2 board
▲D : VOL board
▲E : HEADPHONE board



Ref. No.	Part No.	Description	Remark
51	X-3371-677-2	PANEL ASSY, FRONT (EXCEPT KA1ESA,KE500S: US)	
51	X-3371-678-2	PANEL ASSY, FRONT (KE500S:US)	
51	X-3371-681-2	PANEL ASSY, FRONT (KA1ESA)	
52	3-933-296-01	BUTTON (MONITOR)	
53	3-933-300-11	KNOB (REC)	
54	3-933-299-01	KNOB (DIA. 12)	
55	X-3371-684-2	LID ASSY, CASSETTE (KE500S)	
55	X-3371-686-1	LID ASSY, CASSETTE (KA1ESA)	
56	3-931-429-01	BUTTON (POWER)	
57	1-777-109-11	WIRE (FLAT TYPE) (39 CORE)	
58	3-933-295-01	BUTTON (EJECT)	
59	3-937-169-01	SPRING, TENSION	
60	1-777-110-11	WIRE (FLAT TYPE) (6 CORE)	
61	4-951-620-01	SCREW (2.6X8), +BVTP	
* 62	3-386-245-11	HOLDER (FL)	

Ref. No.	Part No.	Description	Remark
63	3-367-711-01	RETAINER, CASSETTE (KA1ESA)	
64	X-3368-119-1	HOLDER (R) ASSY, CASSETTE	
65	3-354-963-01	DAMPER	
66	1-769-916-11	WIRE (FLAT TYPE) (9 CORE)	
67	1-769-878-11	WIRE (FLAT TYPE) (7 CORE)	
68	3-354-957-01	JOINT (LOCK LEVER)	
* 69	3-354-954-01	LEVER (LOCK LEVER R)	
70	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
71	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
72	3-354-960-01	SPRING (LOADING R), TORSION	
* 73	A-2007-529-A	PANEL BOARD, COMPLETE (US,CND,AUS)	
* 73	A-2007-532-A	PANEL BOARD, COMPLETE(AEP,UK,G,SP,MY)	
* 73	A-2007-534-A	PANEL BOARD, COMPLETE (E)	
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT	

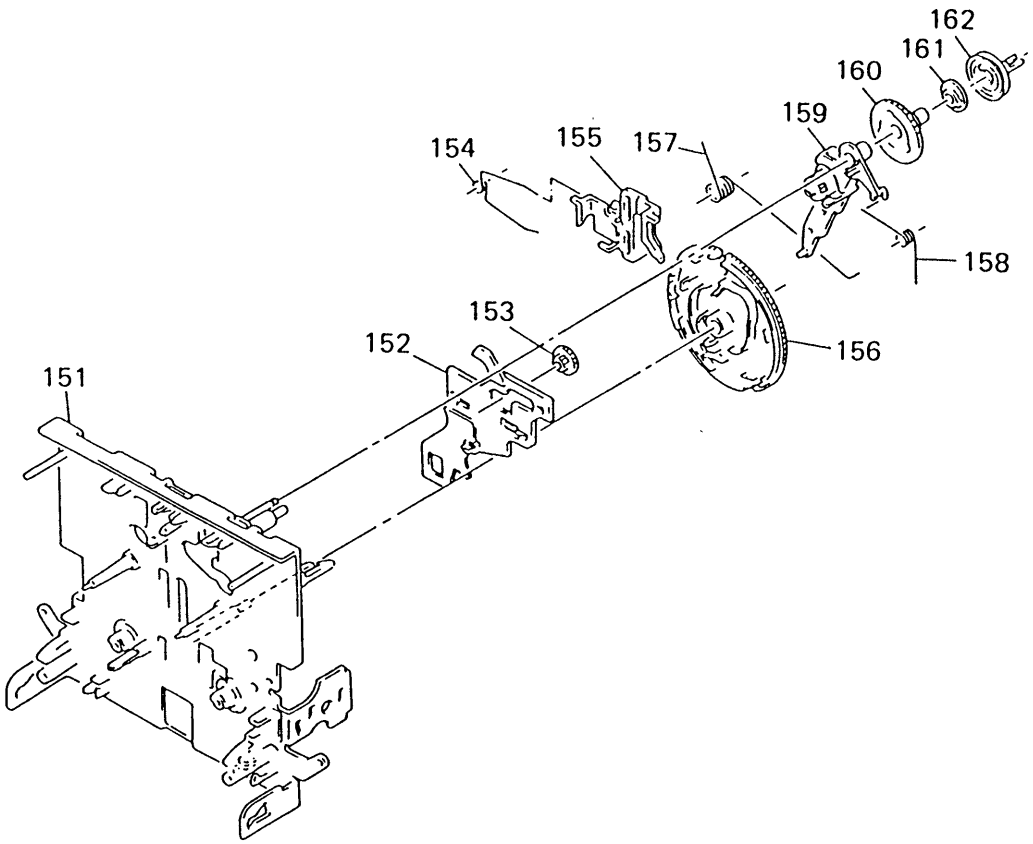
6-3. MECHANISM SECTION 1 (TCM-190VB14)



Ref. No.	Part No.	Description	Remark
101	3-911-014-01	SPRING, TORSION	
102	3-356-659-11	SPRING (RPH), COMPRESSION	
103	3-363-868-01	SPRING (HEAD CHASSIS), TENSION	
* 104	X-3369-024-1	SLIDER (HEAD CHASSIS) ASSY	
105	3-362-308-01	CAP (REEL)	
106	X-3366-971-1	TABLE ASSY (B), REEL	
107	3-359-424-01	GEAR (REV GEAR)	
108	3-356-713-01	WASHER	
109	X-3366-047-1	LEVER (PINCH F) ASSY	
110	3-359-469-01	SPACER	
* 111	1-634-841-14	SW A BOARD	
112	3-359-466-01	BELT (FR), SQUARE	
113	3-359-430-01	SPRING(CASSETTE RETAINER),LEAF	

Ref. No.	Part No.	Description	Remark
114	X-3368-368-1	FLYWHEEL (FWD) COMPLETE ASSY	
115	3-937-332-01	BELT (CAPSTAN)	
116	3-575-321-00	RETAINER, THRUST, CAPSTAN	
117	3-355-808-02	PINCH ROLLER	
118	3-359-414-01	SCREW (+PTPWH 2X23)	
* 119	X-3368-865-1	SLIDER (LIMITER) ASSY	
120	1-638-983-11	MOTOR FLEXIBLE BOARD	
121	3-701-437-11	WASHER	
* 122	1-634-840-21	AUDIO BOARD	
HE101	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HRP101	1-543-733-11	HEAD,MAGNETIC(RECORD/PLAYBACK)	
M1	X-3363-501-2	MOTOR ASSY(REEL)	
M2	X-3368-855-1	MOTOR ASSY(CAPSTAN)	

6-4. MECHANISM SECTION 2
(TCM-190VB14)



Ref. No.	Part No.	Description	Remark
151	X-3368-719-2	CHASSIS(ONE)ASSY,MECHANICAL	
152	3-359-415-11	SLIDER (TRIGGER SLIDER)	
153	3-359-448-01	GEAR (TRIGGER)	
154	3-359-454-01	SPRING, TORSION	
155	3-359-429-11	SLIDER (BRAKE PLATE)	
156	3-936-483-01	GEAR (CAM GEAR)	

Ref. No.	Part No.	Description	Remark
157	3-359-456-01	SPRING(TRIGGER SPRING),TORSION	
158	3-924-185-11	SPRING (FR ARM), TORSION	
159	X-3366-569-1	ARM ASSY, FR	
160	3-359-419-11	GEAR (FR GEAR)	
161	3-359-421-01	CLUTCH (REEL DISK)	
162	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7
ELECTRICAL PARTS LIST

AUDIO **DOLBY S**

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian SP : Singapore
  AUS : Australian G : German
  MY : Malaysia

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-634-840-21	AUDIO BOARD			
		**********			
		< CAPACITOR >			
C71	1-124-903-11	ELECT	1uF	20%	50V
C72	1-124-903-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
* CNP71	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNP72	1-764-902-11	CONNECTOR, FFC/FPC 4P			
* CNP73	1-568-826-11	SOCKET, CONNECTOR 7P			
		< RESISTOR >			
R71	1-249-406-11	CARBON	120	5%	1/4W
		< VARIABLE RESISTOR >			
RV71	1-241-761-11	RES, ADJ, CARBON 1K (TEPE SPEED)			
**********					
*	A-2007-481-A	DOLBY S BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-136-165-00	FILM	0.1uF	5%	50V
C2	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
C3	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
C4	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C5	1-136-165-00	FILM	0.1uF	5%	50V
C6	1-136-165-00	FILM	0.1uF	5%	50V
C7	1-137-372-11	FILM	0.022uF	5%	50V
C8	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C9	1-126-301-11	ELECT	1uF	20%	50V
C10	1-137-442-11	FILM	0.039uF	5%	50V
C11	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C12	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V
C13	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C14	1-124-465-00	ELECT	0.47uF	20%	50V
C15	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C17	1-124-465-00	ELECT	0.47uF	20%	50V
C18	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C20	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C21	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V
C22	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C23	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C24	1-137-442-11	FILM	0.039uF	5%	50V
C25	1-136-165-00	FILM	0.1uF	5%	50V
C26	1-137-372-11	FILM	0.022uF	5%	50V
C28	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN1	1-695-092-11	SOCKET, CONNECTOR 7P			
		< IC >			
IC1	8-752-076-30	IC CXA1917AM-T6			
		< JUMPER RESISTOR >			
J1	1-216-296-00	METAL CHIP	0	5%	1/8W
J2	1-216-296-00	METAL CHIP	0	5%	1/8W
J3	1-216-296-00	METAL CHIP	0	5%	1/8W
		< RESISTOR >			
R1	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R2	1-208-811-11	METAL GLAZE	16K	2%	1/10W
R3	1-208-791-11	METAL GLAZE	2.4K	2%	1/10W
R4	1-208-799-11	METAL GLAZE	5.1K	2%	1/10W
R5	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R6	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R7	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R8	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R9	1-208-812-11	METAL GLAZE	18K	2%	1/10W
R10	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R11	1-216-619-11	METAL CHIP	47	0.5%	1/10W

DOLBY S | MAIN | HEADPHONE

Ref. No.	Part No.	Description			Remark
R12	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R13	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R14	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R15	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R16	1-216-678-11	METAL CHIP	13K	0.5%	1/10W
R17	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R18	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R19	1-208-462-41	METAL GLAZE	10K	2%	1/10W
R20	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

****

*	A-2007-530-A	MAIN BOARD, COMPLETE (KA1ESA)
*	A-2007-531-A	MAIN BOARD, COMPLETE (KE500S:US,E,AUS)
*	A-2007-533-A	MAIN BOARD, COMPLETE (AEP,UK,G,SP,MY)
		**********
		HEADPHONE BOARD
		**********
*	3-356-925-01	HEAT SINK
	3-923-762-11	HOLDER (TR)
	7-682-548-04	SCREW +BVTT 3X8 (S)

< CAPACITOR >

C101	1-126-965-11	ELECT	22uF	20%	50V
C102	1-136-495-11	FILM	0.068uF	5%	50V
C103	1-136-165-00	FILM	0.1uF	5%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-163-014-00	CERAMIC CHIP	0.0027uF	5%	50V
C106	1-126-963-11	ELECT	4.7uF	20%	50V
C111	1-126-963-11	ELECT	4.7uF	20%	50V
C112	1-136-173-00	FILM	0.47uF	5%	50V
C113	1-126-964-11	ELECT	10uF	20%	50V
C114	1-137-366-11	FILM	0.0022uF	5%	50V
C118	1-124-902-00	ELECT	0.47uF	20%	50V
C121	1-107-597-11	CERAMIC	22PF	5%	500V
C122	1-137-428-11	FILM	180PF	5%	50V
C123	1-137-431-11	FILM	560PF	5%	50V
C124	1-101-810-00	CERAMIC	100PF	5%	500V
C125	1-136-803-11	FILM	560PF	5%	630V
C126	1-136-161-00	FILM	0.047uF	5%	50V
C127	1-136-157-00	FILM	0.022uF	5%	50V
C128	1-136-153-00	FILM	0.01uF	5%	50V
C141	1-124-925-11	ELECT	2.2uF	20%	50V
C142	1-136-165-00	FILM	0.1uF	5%	50V
C143	1-136-495-11	FILM	0.068uF	5%	50V
C151	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C152	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C153	1-104-665-11	ELECT	100uF	20%	25V
C154	1-126-968-11	ELECT	100uF	20%	50V
C155	1-136-157-00	FILM	0.022uF	5%	50V
C156	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C157	1-126-964-11	ELECT	10uF	20%	50V
C158	1-136-158-00	FILM	0.027uF	5%	50V

Ref. No.	Part No.	Description			Remark
C159	1-102-518-11	CERAMIC	33PF	5%	50V
C160	1-137-434-11	FILM	0.0018uF	5%	50V
C161	1-137-434-11	FILM	0.0018uF	5%	50V
C181	1-124-925-11	ELECT	2.2uF	20%	100V
C191	1-126-963-11	ELECT	4.7uF	20%	50V
C201	1-126-965-11	ELECT	22uF	20%	50V
C202	1-136-495-11	FILM	0.068uF	5%	50V
C203	1-136-165-00	FILM	0.1uF	5%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-163-014-00	CERAMIC CHIP	0.0027uF	5%	50V
C206	1-126-963-11	ELECT	4.7uF	20%	50V
C211	1-126-963-11	ELECT	4.7uF	20%	50V
C212	1-136-173-00	FILM	0.47uF	5%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-137-366-11	FILM	0.0022uF	5%	50V
C218	1-124-902-00	ELECT	0.47uF	20%	50V
C221	1-107-597-11	CERAMIC	22PF	5%	500V
C222	1-137-428-11	FILM	180PF	5%	50V
C223	1-137-431-11	FILM	560PF	5%	50V
C224	1-101-810-00	CERAMIC	100PF	5%	500V
C225	1-136-803-11	FILM	560PF	5%	630V
C226	1-136-161-00	FILM	0.047uF	5%	50V
C227	1-136-157-00	FILM	0.022uF	5%	50V
C228	1-136-153-00	FILM	0.01uF	5%	50V
C241	1-124-925-11	ELECT	2.2uF	20%	50V
C242	1-136-165-00	FILM	0.1uF	5%	50V
C243	1-136-495-11	FILM	0.068uF	5%	50V
C251	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C252	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C253	1-104-665-11	ELECT	100uF	20%	25V
C254	1-126-968-11	ELECT	100uF	20%	50V
C255	1-136-157-00	FILM	0.022uF	5%	50V
C256	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C257	1-126-964-11	ELECT	10uF	20%	50V
C258	1-136-158-00	FILM	0.027uF	5%	50V
C259	1-102-518-11	CERAMIC	33PF	5%	50V
C260	1-137-434-11	FILM	0.0018uF	5%	50V
C261	1-137-434-11	FILM	0.0018uF	5%	50V
C271	1-126-964-11	ELECT	10uF	20%	50V
C272	1-124-925-11	ELECT	2.2uF	20%	100V
C281	1-124-925-11	ELECT	2.2uF	20%	100V
C291	1-126-963-11	ELECT	4.7uF	20%	50V
C301	1-126-965-11	ELECT	22uF	20%	50V
C302	1-126-965-11	ELECT	22uF	20%	50V
C303	1-124-903-11	ELECT	1uF	20%	50V
C311	1-124-903-11	ELECT	1uF	20%	50V
C319	1-126-964-11	ELECT	10uF	20%	50V
C321	1-126-967-11	ELECT	47uF	20%	35V
C322	1-126-967-11	ELECT	47uF	20%	35V
C323	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C324	1-136-558-11	FILM	0.0039uF	5%	630V
C325	1-126-965-11	ELECT	22uF	20%	50V

Ref. No.	Part No.	Description			Remark
C326	1-106-359-00	MYLAR	4700PF	5%	200V
C327	1-106-349-00	MYLAR	0.0018uF	5%	100V
C328	1-106-349-00	MYLAR	0.0018uF	5%	100V
C343	1-124-925-11	ELECT	2.2uF	20%	100V
C351	1-126-965-11	ELECT	22uF	20%	50V
C352	1-126-965-11	ELECT	22uF	20%	50V
C371	1-130-494-11	MYLAR	0.082uF	5%	50V
C372	1-137-436-11	FILM	0.0039uF	5%	50V
C386	1-126-923-11	ELECT	220uF	20%	10V
C387	1-126-923-11	ELECT	220uF	20%	10V
C421	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C422	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C423	1-163-111-00	CERAMIC CHIP	56PF	5%	50V
C424	1-124-925-11	ELECT	2.2uF	20%	100V
C431	1-126-916-11	ELECT	1000uF	20%	6.3V
C701	1-126-768-11	ELECT	2200uF	20%	16V
C702	1-126-936-11	ELECT	3300uF	20%	16V
C703	1-104-664-11	ELECT	47uF	20%	25V
C704	1-126-027-11	ELECT	1000uF	20%	25V
C705	1-126-027-11	ELECT	1000uF	20%	25V
C706	1-126-968-11	ELECT	100uF	20%	50V
C707	1-126-964-11	ELECT	10uF	20%	50V
C708	1-126-937-11	ELECT	4700uF	20%	16V
C709	1-126-964-11	ELECT	10uF	20%	50V
C710	1-126-963-11	ELECT	4.7uF	20%	50V
C711	1-126-967-11	ELECT	47uF	20%	35V
C712	1-126-927-11	ELECT	2200uF	20%	10V
C713	1-124-564-11	ELECT	4700uF	20%	25V
C715	1-126-964-11	ELECT	10uF	20%	50V
C716	1-126-768-11	ELECT	2200uF	20%	16V
C805	1-136-165-00	FILM	0.1uF	5%	50V
C806	1-136-165-00	FILM	0.1uF	5%	50V
C807	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C808	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C809	1-124-902-00	ELECT	0.47uF	20%	50V
C811	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C813	1-124-902-00	ELECT	0.47uF	20%	50V
C830	1-136-165-00	FILM	0.1uF	5%	50V
C831	1-126-933-11	ELECT	100uF	20%	10V

< CONNECTOR >

CN321	1-506-468-11	PIN, CONNECTOR 3P	
CN701	1-766-272-11	PIN, CONNECTOR (PC BOARD) 10P	
CN801	1-568-825-11	CONNECTOR, FFC/FPC 6P	
CN802	1-568-826-11	CONNECTOR, FFC/FPC 7P	
CN803	1-750-414-11	CONNECTOR, FFC/FPC 9P	
* CN804	1-568-954-11	PIN, CONNECTOR 5P (US,E,AUS)	
CN805	1-778-065-11	SOCKET, CONNECTOR 39P	
CNP311	1-764-328-11	PIN, CONNECTOR (PCB)(V TYPE)5P	
* CNP321	1-560-062-00	PIN, CONNECTOR 4P	
* CNP322	1-560-060-00	PIN, CONNECTOR 2P	
* CNP351	1-560-062-00	PIN, CONNECTOR 4P	
* CNP376	1-568-954-11	PIN, CONNECTOR 5P	
* CNP398	1-691-462-11	PIN, CONNECTOR (PC BOARD) 6P	
CP101	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP141	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP201	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	
CP241	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P	

< DIODE >

D151	8-719-019-12	DIODE	ZSML-5.6X-T1
D181	8-719-988-62	DIODE	1SS355
D182	8-719-988-62	DIODE	1SS355
D183	8-719-019-12	DIODE	ZSML-5.6X-T1
D251	8-719-019-12	DIODE	ZSML-5.6X-T1
D281	8-719-988-62	DIODE	1SS355
D282	8-719-988-62	DIODE	1SS355
D283	8-719-019-12	DIODE	ZSML-5.6X-T1
D301	8-719-988-62	DIODE	1SS355
D311	8-719-988-62	DIODE	1SS355
D312	8-719-988-62	DIODE	1SS355
D313	8-719-988-62	DIODE	1SS355
D314	8-719-988-62	DIODE	1SS355
D315	8-719-988-62	DIODE	1SS355
D321	8-719-988-62	DIODE	1SS355
D322	8-719-988-62	DIODE	1SS355
D341	8-719-988-62	DIODE	1SS355
D342	8-719-988-62	DIODE	1SS355
D371	8-719-988-62	DIODE	1SS355
D372	8-719-988-62	DIODE	1SS355
D373	8-719-988-62	DIODE	1SS355
D431	8-719-988-62	DIODE	1SS355
D701	8-719-200-02	DIODE	10E2
D702	8-719-200-02	DIODE	10E2
D703	8-719-200-02	DIODE	10E2
D704	8-719-200-02	DIODE	10E2
D705	8-719-200-02	DIODE	10E2
D706	8-719-988-62	DIODE	1SS355 (US,CND,E,AUS)
D707	8-719-988-62	DIODE	1SS355
D708	8-719-988-62	DIODE	1SS355 (US,CND,E,AUS)
D709	8-719-019-12	DIODE	ZSML-5.6X-T1
D710	8-719-019-12	DIODE	ZSML-5.6X-T1
D711	8-719-019-12	DIODE	ZSML-5.6X-T1
D712	8-719-200-02	DIODE	10E2
D715	8-719-988-62	DIODE	1SS355 (US,CND,E,AUS)
D716	8-719-019-46	DIODE	ZSML-12Z-T1
D717	8-719-988-62	DIODE	1SS355
D718	8-719-019-25	DIODE	ZSML-7.5Y-T1
D719	8-719-019-18	DIODE	ZSML-6.2Z-T1
D720	8-719-988-62	DIODE	1SS355 (US,CND,E,AUS)
D721	8-719-988-62	DIODE	1SS355

MAIN **HEADPHONE**

Ref. No.	Part No.	Description	Remark
D722	8-719-025-03	DIODE RBA-402-SL	
D723	8-719-019-12	DIODE ZSML-5.6X-T1	
D724	8-719-988-62	DIODE 1SS355	
D801	8-719-988-62	DIODE 1SS355	
D802	8-719-988-62	DIODE 1SS355	
D803	8-719-988-62	DIODE 1SS355	
D804	8-719-988-62	DIODE 1SS355	
		< IC >	
IC301	8-752-066-36	IC CXA1563M	
IC304	8-759-106-56	IC uPC1297CA	
IC311	8-752-070-68	IC CXA1598M	
IC341	8-752-066-36	IC CXA1563M	
IC351	8-759-636-55	IC M5218AFP	
IC371	8-759-100-96	IC uPC4558G2	
IC372	8-759-100-96	IC uPC4558G2	
IC381	8-759-100-96	IC uPC4558G2	
IC385	8-759-100-96	IC uPC4558G2	
IC391	8-759-300-71	IC HD14053BFP	
IC395	8-759-636-55	IC M5218AFP	
IC421	8-759-100-96	IC uPC4558G2	
IC701	8-759-100-96	IC uPC4558G2	
IC801	8-759-422-06	IC M38172M4-171FP	
IC803	8-759-973-95	IC BA6219B	
IC804	8-759-165-82	IC PST600E-T	
		< JACK >	
J385	1-568-519-41	JACK, LARGE TYPE (PHONES)	
		< COIL >	
L121	1-410-780-11	INDUCTOR 27mH	
L122	1-410-778-11	INDUCTOR 18mH	
L221	1-410-780-11	INDUCTOR 27mH	
L222	1-410-778-11	INDUCTOR 18mH	
		< FILTER >	
LPF101	1-236-147-11	FILTER, LOW PASS	
LPF201	1-236-147-11	FILTER, LOW PASS	
		< JACK >	
PJ395	1-770-614-11	JACK, PIN 4P (LINE IN/OUT)	
		< TRANSISTOR >	
Q101	8-729-421-22	TRANSISTOR UN2211	
Q111	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q151	8-729-217-03	TRANSISTOR 2SK170	
Q152	8-729-217-03	TRANSISTOR 2SK170	
Q153	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q154	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q191	8-729-922-37	TRANSISTOR 2SD2144S	

Ref. No.	Part No.	Description	Remark
Q201	8-729-421-22	TRANSISTOR UN2211	
Q211	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q212	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q251	8-729-217-03	TRANSISTOR 2SK170	
Q252	8-729-217-03	TRANSISTOR 2SK170	
Q253	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q254	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q291	8-729-922-37	TRANSISTOR 2SD2144S	
Q311	8-729-421-19	TRANSISTOR UN2213	
Q312	8-729-421-19	TRANSISTOR UN2213	
Q313	8-729-421-19	TRANSISTOR UN2213	
Q314	8-729-421-19	TRANSISTOR UN2213	
Q321	8-729-421-19	TRANSISTOR UN2213	
Q322	8-729-216-22	TRANSISTOR 2SA1162-G	
Q323	8-729-421-19	TRANSISTOR UN2213	
Q324	8-729-421-19	TRANSISTOR UN2213	
Q325	8-729-421-19	TRANSISTOR UN2213	
Q326	8-729-194-57	TRANSISTOR 2SC945-P	
Q327	8-729-194-57	TRANSISTOR 2SC945-P	
Q341	8-729-421-19	TRANSISTOR UN2213	
Q351	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q352	8-729-821-04	TRANSISTOR 2SA1317-STU	
Q371	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q372	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q373	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q391	8-729-421-19	TRANSISTOR UN2213	
Q431	8-729-216-22	TRANSISTOR 2SA1162-G	
Q432	8-729-901-06	TRANSISTOR DTA144EK	
Q433	8-729-421-19	TRANSISTOR UN2213	
Q702	8-729-900-80	TRANSISTOR DTC114ES (US,CND,E,AUS)	
Q703	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q704	8-729-209-15	TRANSISTOR 2SD2012	
Q705	8-729-209-15	TRANSISTOR 2SD2012	
Q706	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q707	8-729-900-80	TRANSISTOR DTC114ES (US,CND,E,AUS)	
Q708	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q709	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q710	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q711	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q712	8-729-224-63	TRANSISTOR 2SK246-BL	
Q722	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q802	8-729-421-19	TRANSISTOR UN2213	
Q803	8-729-901-06	TRANSISTOR DTA144EK	
Q804	8-729-901-06	TRANSISTOR DTA144EK	
Q805	8-729-421-19	TRANSISTOR UN2213	
Q806	8-729-421-22	TRANSISTOR UN2211	
Q807	8-729-421-22	TRANSISTOR UN2211	
Q808	8-729-421-22	TRANSISTOR UN2211	
Q809	8-729-421-22	TRANSISTOR UN2211	
Q810	8-729-801-84	TRANSISTOR 2SB1013-4	
Q812	8-729-216-22	TRANSISTOR 2SA1162-G	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R102	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R103	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R104	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R105	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R111	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R113	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R114	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R116	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
R118	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R122	1-216-101-00	METAL CHIP	150K	5%	1/10W
⚠R123	1-219-153-11	FUSIBLE	10	5%	1/4W F
R124	1-216-085-00	METAL CHIP	33K	5%	1/10W
R125	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R141	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R151	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R152	1-216-029-00	METAL CHIP	150	5%	1/10W
R153	1-216-041-00	METAL CHIP	470	5%	1/10W
R154	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R155	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R156	1-216-046-00	METAL CHIP	750	5%	1/10W
R157	1-216-046-00	METAL CHIP	750	5%	1/10W
R158	1-216-025-91	METAL GLAZE	100	5%	1/10W
R159	1-216-021-00	METAL CHIP	68	5%	1/10W
R160	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R161	1-216-081-00	METAL CHIP	22K	5%	1/10W
R162	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R163	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R164	1-216-073-00	METAL CHIP	10K	5%	1/10W
R165	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R166	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R181	1-216-083-00	METAL CHIP	27K	5%	1/10W
R182	1-216-035-00	METAL CHIP	270	5%	1/10W
R183	1-216-092-00	METAL GLAZE	62K	5%	1/10W
R185	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R186	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R187	1-216-033-00	METAL CHIP	220	5%	1/10W
R188	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R191	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R192	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R193	1-216-073-00	METAL CHIP	10K	5%	1/10W
R194	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R195	1-216-079-00	METAL CHIP	18K	5%	1/10W
R196	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R197	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R198	1-216-081-00	METAL CHIP	22K	5%	1/10W
R201	1-216-097-91	METAL GLAZE	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R202	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R203	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R204	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R205	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R211	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W
R213	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R214	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R216	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R218	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R221	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R222	1-216-101-00	METAL CHIP	150K	5%	1/10W
⚠R223	1-219-153-11	FUSIBLE	10	5%	1/4W F
R224	1-216-085-00	METAL CHIP	33K	5%	1/10W
R225	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R241	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R251	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R252	1-216-029-00	METAL CHIP	150	5%	1/10W
R253	1-216-041-00	METAL CHIP	470	5%	1/10W
R254	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R255	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R256	1-216-046-00	METAL CHIP	750	5%	1/10W
R257	1-216-046-00	METAL CHIP	750	5%	1/10W
R258	1-216-025-91	METAL GLAZE	100	5%	1/10W
R259	1-216-021-00	METAL CHIP	68	5%	1/10W
R260	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R261	1-216-081-00	METAL CHIP	22K	5%	1/10W
R262	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R263	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R264	1-216-073-00	METAL CHIP	10K	5%	1/10W
R265	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R266	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R271	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R272	1-216-083-00	METAL CHIP	27K	5%	1/10W
R273	1-216-088-00	METAL CHIP	43K	5%	1/10W
R274	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R281	1-216-083-00	METAL CHIP	27K	5%	1/10W
R282	1-216-035-00	METAL CHIP	270	5%	1/10W
R283	1-216-092-00	METAL GLAZE	62K	5%	1/10W
R285	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R286	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R287	1-216-033-00	METAL CHIP	220	5%	1/10W
R288	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R291	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R292	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R294	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R295	1-216-079-00	METAL CHIP	18K	5%	1/10W
R296	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R297	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R298	1-216-081-00	METAL CHIP	22K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN | HEADPHONE

Ref. No.	Part No.	Description			Remark
R301	1-208-813-11	METAL GLAZE	20K	2%	1/10W
R302	1-216-081-00	METAL CHIP	22K	5%	1/10W
R303	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R311	1-216-685-11	METAL CHIP	27K	2%	1/10W
R312	1-216-081-00	METAL CHIP	22K	5%	1/10W
R313	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R316	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R317	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R321	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R322	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R323	1-216-041-00	METAL CHIP	470	5%	1/10W
R324	1-216-050-00	METAL GLAZE	1.1K	5%	1/10W
R325	1-216-080-00	METAL CHIP	20K	5%	1/10W
R328	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R329	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R330	1-249-390-11	CARBON	5.6	5%	1/4W
R331	1-249-390-11	CARBON	5.6	5%	1/4W
R332	1-249-440-11	CARBON	82K	5%	1/4W
R333	1-249-440-11	CARBON	82K	5%	1/4W
R341	1-208-813-11	METAL GLAZE	20K	2%	1/10W
R342	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R343	1-216-081-00	METAL CHIP	22K	5%	1/10W
R344	1-216-081-00	METAL CHIP	22K	5%	1/10W
R351	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R371	1-216-054-00	METAL GLAZE	1.6K	5%	1/10W
R372	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R373	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R374	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R375	1-216-081-00	METAL CHIP	22K	5%	1/10W
R376	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R377	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R378	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R379	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
⚠R385	1-249-401-11	CARBON	47	5%	1/4W F
R391	1-216-081-00	METAL CHIP	22K	5%	1/10W
R401	1-216-080-00	METAL CHIP	20K	5%	1/10W
R402	1-216-078-00	METAL CHIP	16K	5%	1/10W
R403	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R404	1-216-089-91	METAL CHIP	47K	5%	1/10W
R405	1-216-080-00	METAL GLAZE	20K	5%	1/10W
R406	1-216-092-00	METAL GLAZE	62K	5%	1/10W
R407	1-216-082-00	METAL CHIP	24K	5%	1/10W
R408	1-216-079-00	METAL CHIP	18K	5%	1/10W
R409	1-216-074-00	METAL CHIP	11K	5%	1/10W
R410	1-216-085-00	METAL CHIP	33K	0.5%	1/10W
R411	1-216-087-91	METAL GLAZE	39K	5%	1/10W
R412	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R413	1-216-085-00	METAL CHIP	33K	5%	1/10W
R414	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R415	1-216-083-00	METAL CHIP	27K	5%	1/10W
R416	1-216-090-00	METAL GLAZE	51K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R417	1-216-083-00	METAL CHIP	27K	5%	1/10W
R418	1-216-081-00	METAL CHIP	22K	5%	1/10W
R423	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R425	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R426	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R427	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R431	1-216-081-00	METAL CHIP	22K	5%	1/10W
R432	1-216-033-00	METAL CHIP	220	5%	1/10W
R701	1-249-417-11	CARBON	1K	5%	1/4W
R702	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R703	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R704	1-216-030-00	METAL CHIP	160	5%	1/10W
R705	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R706	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R707	1-216-073-00	METAL CHIP	10K	5%	1/10W
R708	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R709	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R710	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R711	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R712	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R713	1-249-417-11	CARBON	1K	5%	1/4W
R714	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R715	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R716	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US,CND,E,AUS)
R717	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R718	1-216-081-00	METAL CHIP	22K	5%	1/10W
⚠R719	1-219-135-11	FUSIBLE	0.15	10%	1/4W F
⚠R720	1-219-137-11	FUSIBLE	0.33	10%	1/4W F
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R723	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R724	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R725	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US,CND,E,AUS)
⚠R730	1-219-139-11	FUSIBLE	0.68	10%	1/4W F
⚠R731	1-219-139-11	FUSIBLE	0.68	10%	1/4W F
R801	1-216-081-00	METAL CHIP	22K	5%	1/10W
R802	1-216-081-00	METAL CHIP	22K	5%	1/10W
R803	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R804	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R806	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R807	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R808	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R809	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R810	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R811	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R812	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R813	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R814	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R815	1-216-046-00	METAL CHIP	750	5%	1/10W
R816	1-216-041-00	METAL CHIP	470	5%	1/10W

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Ref. No.	Part No.	Description			Remark
⚠R817	1-212-954-11	FUSIBLE	6.8	5%	1/2W F
R822	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R823	1-216-073-00	METAL CHIP	10K	5%	1/10W
R824	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R825	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R831	1-216-073-00	METAL CHIP	10K	5%	1/10W
R832	1-216-073-00	METAL CHIP	10K	5%	1/10W
R834	1-216-083-00	METAL CHIP	27K	5%	1/10W
R835	1-216-083-00	METAL CHIP	27K	5%	1/10W
R845	1-216-073-00	METAL CHIP	10K	5%	1/10W
R846	1-216-073-00	METAL CHIP	10K	5%	1/10W
R847	1-216-073-00	METAL CHIP	10K	5%	1/10W
R848	1-216-073-00	METAL CHIP	10K	5%	1/10W
R849	1-216-073-00	METAL CHIP	10K	5%	1/10W
R850	1-216-073-00	METAL CHIP	10K	5%	1/10W
R851	1-216-073-00	METAL CHIP	10K	5%	1/10W
R852	1-216-073-00	METAL CHIP	10K	5%	1/10W
R853	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV111	1-238-019-11	RES, ADJ, CARBON 47K (REC EQ IV L)			
RV112	1-241-765-11	RES, ADJ, CARBON 22K (REC LEVEL L)			
RV121	1-241-765-11	RES, ADJ, CARBON 22K (REC BIAS L)			
RV151	1-241-759-21	RES, ADJ, CARBON 220 (PB LEVEL R)			
RV211	1-238-019-11	RES, ADJ, CARBON 47K (REC EQ IV R)			
RV212	1-241-765-11	RES, ADJ, CARBON 22K (REC LEVEL R)			
RV221	1-241-765-11	RES, ADJ, CARBON 22K (REC BIAS R)			
RV251	1-241-759-21	RES, ADJ, CARBON 220 (PB LEVEL R)			
RV312	1-241-762-11	RES, ADJ, CARBON 4.7K (REC EQ IV)			
		< TRANSFORMER >			
T121	1-433-344-11	TRANSFORMER, BIAS OSCILLATION			
T221	1-433-344-11	TRANSFORMER, BIAS OSCILLATION			
T321	1-423-614-11	TRANSFORMER, BIAS OSCILLATION			
		< TEST PIN >			
* TP321	1-564-506-11	PLUG, CONNECTOR 3P			
* TP802	1-560-060-00	PIN, CONNECTOR 2P			
		< VIBRATOR >			
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			

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Ref. No.	Part No.	Description			Remark
*	A-2007-529-A	PANEL BOARD, COMPLETE (US,CND,AUS)			
*	A-2007-532-A	PANEL BOARD, COMPLETE (AEP,UK,G,SP,MY)			
*	A-2007-534-A	PANEL BOARD, COMPLETE (E)			
		**********			
		POWER SW 1 BOARD (AEP,UK,G,SP,MY)			
		**********			
		POWER SW2 BOARD (US,CND,E,AUS)			
		**********			
		TRANS 1 BOARD (EXCEPT E)			
		**********			
		TRANS 2 BOARD			
		**********			
		VOL BOARD			
		**********			
*	3-386-245-11	HOLDER (FL)			
		< CAPACITOR >			
⚠C717	1-113-925-11	ELECT	0.01uF	20%	250V (AEP,UK,G,SP,MY)
C720	1-136-165-00	FILM	0.1uF	5%	50V
C721	1-136-165-00	FILM	0.1uF	5%	50V
		< CONNECTOR >			
CN901	1-778-065-11	SOCKET, CONNECTOR 39P			
CN902	1-568-825-11	CONNECTOR, FFC/FPC 6P			
		< CONNECTOR >			
* CNP702	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P (EXCEPT E)			
CNP703	1-568-226-11	PIN, CONNECTOR 2P (AEP,UK,G,SP,MY)			
		< DIODE >			
D901	8-719-987-63	DIODE 1N4148M			
D902	8-719-987-63	DIODE 1N4148M			
D903	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC901	8-741-810-59	IC SBX1810-59			
		< LINE FILTER >			
⚠LF701	1-424-485-11	FILTER, LINE (EXCEPT E)			
		< TRANSISTOR >			
Q901	8-729-900-89	TRANSISTOR DTC144ES			
Q902	8-729-900-89	TRANSISTOR DTC144ES			
Q903	8-729-900-89	TRANSISTOR DTC144ES			
		< RESISTOR >			
R115	1-249-425-11	CARBON	4.7K	5%	1/4W
R215	1-249-425-11	CARBON	4.7K	5%	1/4W
R327	1-249-429-11	CARBON	10K	5%	1/4W
R833	1-249-429-11	CARBON	10K	5%	1/4W
R838	1-249-441-11	CARBON	100K	5%	1/4W

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PANEL **POWER SW1** **POWER SW2** **TRANS 1** **TRANS 2** **VOL** **SW A**

Ref. No.	Part No.	Description			Remark
R839	1-249-441-11	CARBON	100K	5%	1/4W
R840	1-249-441-11	CARBON	100K	5%	1/4W
R841	1-249-441-11	CARBON	100K	5%	1/4W
R842	1-249-441-11	CARBON	100K	5%	1/4W
R843	1-249-441-11	CARBON	100K	5%	1/4W
R844	1-249-441-11	CARBON	100K	5%	1/4W
R861	1-249-441-11	CARBON	100K	5%	1/4W
R901	1-249-441-11	CARBON	100K	5%	1/4W
R905	1-247-838-00	CARBON	2K	5%	1/4W
R906	1-249-422-11	CARBON	2.7K	5%	1/4W
R907	1-247-848-11	CARBON	5.1K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-247-866-11	CARBON	30K	5%	1/4W
R910	1-247-838-00	CARBON	2K	5%	1/4W
R911	1-249-422-11	CARBON	2.7K	5%	1/4W
R912	1-247-848-11	CARBON	5.1K	5%	1/4W
R915	1-249-429-11	CARBON	10K	5%	1/4W
R916	1-247-866-11	CARBON	30K	5%	1/4W
R917	1-247-836-11	CARBON	1.6K	5%	1/4W
R918	1-247-840-00	CARBON	2.4K	5%	1/4W
R919	1-249-423-11	CARBON	3.3K	5%	1/4W
R920	1-249-426-11	CARBON	5.6K	5%	1/4W
R921	1-247-858-11	CARBON	13K	5%	1/4W
R922	1-247-868-11	CARBON	36K	5%	1/4W
R923	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV311	1-225-221-11	RES, VAR, CARBON 5K/5K (REC LEVEL)			
RV321	1-225-222-11	RES, VAR, CARBON 5K/5K (BIAS)			
RV395	1-225-219-11	RES, VAR, CARBON 50K/50K (BALANCE)			
RV396	1-225-220-11	RES, VAR, CARBON 50K/50K (REC LEVEL)			
		< SWITCH >			
S901	1-554-303-21	SWITCH, TACTILE(■)			
S902	1-554-303-21	SWITCH, TACTILE(◀◀)			
S903	1-554-303-21	SWITCH, TACTILE(▶▶)			
S904	1-554-303-21	SWITCH, TACTILE(●)			
S905	1-554-303-21	SWITCH, TACTILE(○)			
S906	1-554-303-21	SWITCH, TACTILE(▷)			
S907	1-554-303-21	SWITCH, TACTILE(❚❚)			
S908	1-554-303-21	SWITCH, TACTILE(MEMORY)			
S909	1-554-303-21	SWITCH, TACTILE(RESET)			
S910	1-554-303-21	SWITCH, TACTILE(MONITOR)			
S911	1-554-303-21	SWITCH, TACTILE(CALIBRATION)			
S913	1-762-647-11	SWITCH, ROTARY(DOLBY NR)			
S915	1-762-580-11	SWITCH, PUSH (1 KEY)(POWER)(US,CND,E,AUS)			
⚠S922	1-762-581-11	SWITCH, AC POWER PUSH(1 KEY) (POWER) (AEP,UK,G,SP,MY)			
		< INDICATOR TUBE >			
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT			

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Ref. No.	Part No.	Description			Remark
*	1-634-841-14	SW A BOARD			
		**********			
		< CONNECTOR >			
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P			
		< IC >			
IC81	8-749-924-10	IC PHONT REFLECTOR NJL5165K-B(H1)			
IC82	8-749-924-10	IC PHONT REFLECTOR NJL5165K-B(H1)			
		< RESISTOR >			
R81	1-249-414-11	CARBON	560	5%	1/4W
R83	1-247-834-11	CARBON	1.3K	5%	1/4W
R84	1-249-417-11	CARBON	1K	5%	1/4W
R85	1-249-408-11	CARBON	180	5%	1/4W
R86	1-249-408-11	CARBON	180	5%	1/4W
		< SWITCH >			
S81	1-571-958-11	SWITCH, PUSH (1 KEY)(STOP SW)			
S82	1-571-281-21	SWITCH, LEAF (CrO2)			
S83	1-571-281-21	SWITCH, LEAF (METAL)			
S84	1-571-281-21	SWITCH, LEAF (REC)			
S86	1-571-281-21	SWITCH, LEAF (HALF)			

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MISCELLANEOUS
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⚠10	1-551-188-XX	CORD, POWER (E)
⚠10	1-558-945-21	CORD, POWER (POLAR.SPT-1)(US,CND)
⚠10	1-575-651-21	CORD, POWER (AEP,G,SP,MY)
⚠10	1-696-586-11	CORD, POWER (UK)
⚠10	1-696-845-11	CORD, POWER (AUS)
⚠10	1-751-523-11	CORD, POWER (UK)
⚠11	1-569-007-11	ADAPTER, CONVERSION 2P (E)
57	1-777-109-11	WIRE (FLAT TYPE) (39 CORE)
60	1-777-110-11	WIRE (FLAT TYPE) (6 CORE)
66	1-769-916-11	WIRE (FLAT TYPE) (9 CORE)
67	1-769-878-11	WIRE (FLAT TYPE) (7 CORE)
120	1-638-983-11	MOTOR FLEXIBLE BOARD
HE101	1-543-673-11	HEAD, MAGNETIC (ERASE)
HRP101	1-543-733-11	HEAD,MAGNETIC(RECORD/PLAYBACK)
M1	X-3363-501-2	MOTOR ASSY(REEL)
M2	X-3368-855-1	MOTOR ASSY(CAPSTAN)
⚠S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) (E)
⚠T701	1-429-611-11	TRANSFORMER, POWER (US,CND)
⚠T701	1-429-612-11	TRANSFORMER, POWER (EXCEPT US,CND,AUS, E)
⚠T701	1-429-613-11	TRANSFORMER, POWER (E)
⚠T701	1-429-659-11	TRANSFORMER, POWER (AUS)
VFD901	1-517-163-11	INDICATOR TUBE, FLUORESCENT

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******************************	
	1-551-734-11	CORD, CONNECTION	
	3-856-131-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,PORTUGUESE)(CND,AEP)	
	3-856-131-21	MANUAL, INSTRUCTION (ENGLISH)(US,UK,AUS)	
	3-856-131-31	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH,ITALIAN)(AEP)	
	3-856-131-41	MANUAL, INSTRUCTION (GERMAN)(G)	
	3-856-131-51	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,CHINESE)(E,SP,MY)	
*	3-932-083-01	CUSHION (KE500S)	
*	3-935-038-01	INDIVIDUAL CARTON (AEP,UK,G,SP,MY)	
*	3-935-040-01	INDIVIDUAL CARTON (KA1ESA)	
*	3-935-093-01	INDIVIDUAL CARTON (KE500S:US,E,AUS)	
*	3-936-086-01	CUSHION (KA1ESA)	

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HARDWARE LIST

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#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-871-09	SCREW +BVTT 3X6 (S)(KA1ESA)	
#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#5	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
#6	7-685-134-19	SCREW (+ PTPWH)(2.6X8)	
#7	7-621-772-10	SCREW +B 2X4	
#8	7-627-556-08	SCREW +P 2.6X2.8	
#9	7-621-775-00	SCREW +B 2.6X3	

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